



FORM 'C'  
RASHTRIYA ISPAT NIGAM LIMITED  
VISAKHAPATNAM STEEL PLANT  
WORKS CONTRACTS DEPARTMENT  
VISAKHAPATNAM-530031  
PHONE NO: (MAX)3691, TELEFAX NO:0891-2518763

**NAME OF THE WORK: CAPITAL & MEDIUM REPAIR OF CCP EQUIPMENT**

**TENDER NO: 76287-0**

PERIOD OF CONTRACT : 12 (TWELVE) Months  
DEFECT LIABILITY PERIOD : 03 (THREE) Months  
ENGINEER : AGM (M)-CO&CCP

ISSUED TO SRI/ M/s. \_\_\_\_\_

**Note:** Tenderer has to fill the data wherever and whatever required in the tender schedule without fail and sign all the pages

No of pages of BOQ : 04 (FOUR) pages only  
Total No. of pages : 38 (THIRTY EIGHT) pages only

(FOR OFFICE USE ONLY)

1. E.M.D. PARTICULARS	:	
2. Sl. No.	:	OUT OF TENDERS
3. COVERING LETTER	:	NO. OF PAGES:
4. REBATE OFFERED	:	
5. RATE WRITTEN IN WORDS	:	
6. VALIDITY OF TENDER	:	4 MONTHS FROM THE DATE OF OPENING
<div>SIGNATURE OF CONTRACT DEPT. REPRESENTATIVE</div> <div>SIGNATURE OF FINANCE DEPARTMENT REPRESENTATIVE</div>		

**RINL Vigilance → TOLL FREE NUMBER : 1800 425 8878**



**RASHTRIYA ISPAT NIGAM LIMITED**  
**VISAKHAPATNAM STEEL PLANT**  
**WORKS CONTRACTS DEPT., VISAKHAPATNAM -530031 (A.P.)**  
**TELEFAX: 0891-2518763 TEL NO: 0891-2758705, 2518763**  
**OPEN TENDER NOTICE NO: VSP/WC/CO&CCP/76287-0/OT/2016 Dt. 10-09-2016**

- 1.0 Sealed tenders along with Earnest Money Deposit (EMD) are invited from experienced contractors for the following work:

**76287-0 : CAPITAL & MEDIUM REPAIR OF CCP EQUIPMENT**

Tender No:	Name of the work
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**Note :** 1) The Agencies having experience in "Repair / overhauling of distillation columns, ESPs, heat exchangers, compressors / centrifuges and stainless steel welding of pipelines / vessels" will only be considered.

2) Welfare allowance is applicable for this work

Tender Number	Cost of Tender Document (Non-refundable)		Eligibility/ experience requirements		Earnest Money Deposit (₹)
	By hand	By download	Value of single similar work executed (₹ in Lakhs)	Annual Turn over (₹ In Lakhs)	
<b>76287-0</b>	<b>800/-</b>	<b>800/-</b>	<b>20.81</b>	<b>12.48</b>	<b>37,500/-</b>

2.0 Cost of Tender document(s) shall be paid in the form of Demand Draft/Pay Order/Banker's Cheque, obtained from any Nationalized or Scheduled Bank in India, drawing in favour of **RIN Ltd.**, payable at **Visakhapatnam** and shall be valid for a minimum period of one month from the date of opening of tender i.e., Envelope-1 [Pre-qualification documents]. **THE COST OF TENDER DOCUMENT(S) RECEIVED ALONGWITH TENDER DOCUMENT WILL NOT BE REFUNDED UNDER ANY CIRCUMSTANCES UPON RECEIPT OF TENDER.**

3.0 The value of **single similar work executed** shall be during the last **07(Seven)** years ending last day of month previous to Tender Notice date i.e: **31.08.2016** and Turnover shall be the average Annual Financial Turnover during the **last three years** ending 31<sup>st</sup> March of the previous financial year i.e.**31.03.2016**. The tender document shall be accompanied with copies of (a) Work Order, Bill of Quantities, Work Completion Certificate indicating the total value of the work done inclusive of all deviations and escalations against the subject work and including all taxes & duties, but excluding Service Tax. In case of work executed outside VSP, and where the total amount includes Service Tax, tenderers shall make efforts to get the value of Service Tax indicated separately in the Work Completion Certificate. **In case of work-in-progress, Work-in-progress Certificate indicating start date as per Order and actual start date & value of work executed with date up to which it is considered against the subject work and including all taxes and duties, but excluding Service Tax with certification of satisfactory performance of the Contractor to that extent and continuance of the said work by the respective employer** (b) for Turn Over Audited balance sheets certified by Practicing Chartered Accountant in case the annual Turn-over is more than ₹40.00 Lakhs (or) in case of Turn-Over being less than ₹40.00 lakhs either Turn-over certificate in the prescribed format of VSP duly signed by a practicing Chartered Accountant/Cost Accountant or T.D.S. certificate(s) comprising of the Gross bill values issued by the Deductor(s) for the work done. (c) Copy of registration letter issued by V.S.P. in case of registered agencies and in case of non-registered agencies, either a copy of Notarized sole proprietorship OR a copy of partnership deed OR a copy of Memorandum of Association & Articles of Association, along with certificate of registration – whichever is applicable. VSP reserves the right to reject the offer in case the above

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**Documents are not enclosed along with the offer.** The authorized representative of the tenderer shall sign on all the copies of the documents submitted along with the tender document.

## NOTE :

- 1) TENDERERS SHALL SUBMIT PF REGISTRATION CERTIFICATE IF AVAILABLE, IF NOT AVAILABLE SUCCESSFUL TENDERER SHALL SUBMIT PF REGISTRATION CERTIFICATE BEFORE COMMENCEMENT OF THE CONTRACT.
  - 2) THE SUCCESSFUL TENDERER SHALL PRODUCE REGISTRATION CERTIFICATE UNDER APVAT ACT, WHEREVER APPLICABLE, BEFORE SIGNING THE WORK ORDER / LOA AND SUBMIT A COPY OF THE SAME.
- 4.0 The tenderers are requested to note that :
  - 4.1 The offer shall be made in **02(two) envelopes. First envelope** (to be super scribed as Envelope-1 with name of the work, tender no.) should contain the cost of the tender document in case the tender is down loaded from the web site (Tender can be purchased from the office of Dy GM(WC) I/c by paying tender cost in the form of DD/PO/BC as cited at para-2 above in which case tender cost need not be enclosed while submitting the tender), Earnest Money Deposit(EMD) separately in the form of DD/PO/BC etc (refer to instruction to tenderer) and pre-qualification documents(Criteria eligibility/experience and other documents etc. as cited at para(03) above) duly signed / attested by the authorized representative of the company as per para-1 read with para-3 above. **Second envelope** (to be super scribed as Envelope-2 with name of the work, tender no.) should contain price bid in its prescribed format along with the tender document.
  - 4.2 The first cover shall be opened initially and only on satisfying the eligibility criteria, adequacy of cost of tender document ( in case of downloaded tender) and EMD etc., placed in it, the second envelope containing the price bid shall be opened. The date and time of opening of the price bid along with names of successful tenderers in pre-qualification will be subsequently displayed in the notice board of Works Contracts only and no individual communication to tenderers will be made.
  - 4.3. **The documents submitted in the first envelope by the tenderers in respect of pre-qualification criteria are final and no further correspondence / clarifications / submissions in this regard shall be entertained.**
  - 4.4 Scope of work, Bill of Quantities (BOQ), Terms & Conditions given in the tender documents (placed in the website) is final. On verification, at any time, whether the tenderer is successful or not, if any of the documents submitted by the tenderer including the documents downloaded from our website / issued are found tampered/altered/ incomplete, they are liable for actions like rejection of the tender, cancellation & termination of the contract, debarring etc., as per the rules of the company.
  - 4.5 It will be presumed that the tenderers have gone through the General Conditions, Special Conditions & Instructions to tenderer etc., of the contract available in the website which shall be binding on him/ them.
  - 4.6 The tenderer shall download the "TENDER SCHEDULE" available on the website in totality and submit the same duly signed on each page. **Any time prior to the deadline for submission of bids, Works Contracts department may, for any reason, modify the tender terms and conditions by way of an amendment, such amendment will be notified on RINL's website at regular intervals.**
  - 4.7 **Tenders submitted against the NIT / Tender shall not be returned in case the tender opening date is extended/postponed. Tenderers desirous to modify their offer / terms may submit their revised / supplementary offer(s) within the extended TOD, by clearly stating the extent of updation done to their original offer and the order of prevalence of revised offer vis-à-vis original offer. The employer reserves the right to open the original offer along with revised offer(s)**
  - 5.0. The tender documents and other details can be downloaded from our web site: [www.vizagsteel.com](http://www.vizagsteel.com) and the same are to be submitted to the Dy General Manager (Works Contracts) I/c, Visakhapatnam Steel Plant duly signed on each page by the tenderer **on or before 03.00 PM on 29.09.2016.**
  - 6.0. Non-transferable tender document can also be obtained from the office of Dy General Manager (Works Contracts) I/c, VSP on written request on bidder's letter head on payment of tender cost in the form of DD/BC during working hours **10 AM to 4.30 PM on or before 04.30 PM on 28.09.2016**
  - 7.0. Tenders will be received in the office of Dy General Manager (Works Contracts) I/c, **up to 03.00 PM on 29.09.2016 and Envelope-1 will be opened immediately there after.**
  - 8.0. VSP after opening of tender/bid document may seek in writing, documents/clarifications which are necessary for evaluation of tender/bid document from the Tenderers/bidders or issuing authority for confirmation of eligibility/pre-qualification stipulated in the NIT.
  - 9.0 If it comes to the notice of VSP at any stage right from request for registration /tender document that any of the certificates /documents submitted by applicant for registration or **by bidders are found to be false/ fake/doctored, the party will be debarred from participation in all VSP tenders for a period of 05(FIVE) years including termination of contract, if awarded. E.M.D/Security Deposit etc., if any will be forfeited. The contracting agency in such cases shall make good to VSP any loss or damage resulting from such termination. Contracts in operation any where in VSP will also be terminated with attendant fall outs like forfeiture of E.M.D/Security Deposit , if any, and recovery of risk and cost charges etc., Decision of V.S.P Management will be final and binding**
  - 10.0 The date of opening of the pre-qualification cover ( envelope-1) shall be the date of tender opening in respect of both the single bid and two-bid ( techno-commercial and price-bid).

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- 11.0 Successful tenderer should be in a position to produce, after opening of the price bids, the Original Certificates in support of the attested copies of relevant documents submitted along with tender document. Failure to produce the original certificates at this stage in support of the attested copies of P.F. Regn./ITCC/Electrical License/experience /qualification/any other documents etc. submitted earlier would result in **disqualification and forfeiture of EMD and also liable for debarring from participation in VSP tenders**
- 12.0 Tender documents will be issued to tenderers based on their request and on payment of tender cost or same can be downloaded from our web site by submitting the cost of tender along with their offer. However, RINL will not be responsible for any delay/loss/any website related problems in downloading the tender documents etc.. RINL reserve the right to (a) Issue or Refuse tender documents without assigning any reason. (b) Split and award the work to more than one agency, (c) reject any or all the tenders or to accept any tender wholly or in part or drop the proposal of receiving tenders at any time without assigning any reason there of and without being liable to refund the cost of tender documents thereupon.

**For Dy General Manager (Works Contracts) I/c**

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FORM – A

Ref. Tender No.

76287-0

Name of the Work : **CAPITAL & MEDIUM REPAIR OF CCP EQUIPMENT**

Dy General Manager I/c  
Works Contracts Department  
Visakhapatnam Steel Plant  
Visakhapatnam-530 031.

Sirs,

With reference to the Notice Inviting Tender, I/We have gone through the tender documents issued to us. I/We have also gone through the General Conditions of Contract of VSP available in VSP web site and noted the contents therein. I/We hereby confirm that I/We shall abide by Terms and Conditions of General Conditions of the Contract including Form of Tender, Invitation to Tender, Articles of Agreement etc. I/We hereby declare that, I/We have visited, inspected and examined the site and its surroundings and satisfied ourselves before submitting this tender, obtained information about the nature of work, facilities that may be required and obtained necessary information about Working Conditions, risk contingencies etc., which may influence this tender. We hereby offer to execute & maintain the work during the defect liability period in conformity with the tender conditions at the respective rates quoted by us.

I/We have deposited the EMD, which amount is not to bear any interest and I/We do hereby agree that this sum shall be forfeited by me/us if I/We revoke/withdraw/cancel my/our tender or if I/We vary any terms in our tender during the validity period of the tender without your written consent and/or if in the event of Visakhapatnam Steel Plant accepting my/our tender and I/We fail to deposit the required security money, execute the Agreement and/start the work within reasonable time (to be determined by the Engineer) after written acceptance of my/our Tender.

- Status of the firm (mark)
- Proprietary /Partnership/others (Specify)

\* Authority to Sign:

- a) Proprietor
  - b) Managing Partner
  - c) Power of attorney holder
- Name of Partners:
- 1)
  - 2)
  - 3)

Following Details are to be furnished by the tenderer compulsorily (neat&legible) while submitting the tender schedule

Income Tax PAN No.

Status/Reason for not having PAN No.

OFFICIAL ADDRESS

Phone No:

Cell No :

Fax No.:

e-mail address:

Yours faithfully,

(Signature of Contractor)

Name:.....

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## INSTRUCTIONS TO TENDERERS

- 1.a) Tenders shall be submitted in the office of the Dy General Manager (Works Contracts) I/c, Visakhapatnam Steel Plant, Visakhapatnam – 530 031.
- b) Tenders shall be submitted in the prescribed form issued by VSP. The Tender documents issued are not transferable. Tender documents issued/downloaded shall be submitted wholly without detaching any part.
- c) The Tenderer shall agree to VSP's terms and conditions, specifications/scope of work, etc., and quote their **"Total Amount only"** accordingly.
- d) Tender shall be for the entire scope of work mentioned in the tender documents.
- e) Tenderer **"Shall quote only the Total Amount in figures and in words"**. Over writing is not permitted and corrections are to be essentially initialed. Amount quoted in words shall govern in case of variance between figures and words.
- f) The **"Total Amount quoted in figures and words shall be tallied"** before submission of the tender and all mistakes corrected and initialed. Quotation shall preferably be type written or written in neat and legible handwriting. All the pages of tender documents shall be signed by the tenderer.
- g) **Respective tenderers participating in the tenders due for opening on the scheduled day, can witness the opening of tenders/price bid on production of valid identity card/gate pass, or alternately, shall give a duly signed authorization to their designated representatives who are nominated if they wish to witness the tender/price bid opening. However, if any person is found obstructing the passage/entry to the tender box, or if any unauthorized person is found in the tender opening room, the designated officer of WCD, incharge for tender submission/opening of bids or the HOD of WCD shall inform the CISF constable present on duty to evict the person. Also, to intimate to CISF in writing, to cancel the Gate Pass for a period of 01 (ONE) year.**
- h) If by any reason the tender opening is postponed to any other date, the details will be displayed in the notice board of Works Contract Department. Tenderers shall see the notice board regularly and keep themselves informed in this matter.
- i) Before quoting, the tenderer shall necessarily contact the "Engineer" and fully understand the job, scope of work, unit of measurement, mode of measurement, scope of supply of materials by VSP if any, working conditions, shutdown arrangements, Labour deployment requirements, risk contingencies and such other factors which may affect their tender.
- j) General Conditions of Contract of VSP for Works Contracts are available in the Office of DGM (Works Contracts) I/c and also in VSP's web site for reference. The tenderers shall study and understand all the relevant provisions before quoting.
- k) Tenders shall be kept open for acceptance for a period 4 (Four) MONTHS from the date of opening of tender i.e., Envelope-1.
- l) After opening of tender, the tenderers may be called for negotiations and the details like date, time etc. will be displayed on the notice board of Works Contract Department. The tenderers shall see the notice board regularly and keep themselves informed in this matter and promptly attend negotiations without fail.
- m) Purchase Preference will be given to PSU's where applicable as per DPE guidelines.
- n) The local Small Scale Industries as approved by VSP and registered with Works Contracts Department of Visakhapatnam Steel Plant in the category of Industrial Paint Manufactures for supply and application of industrial Paints to various structurals, equipment pipelines etc., are eligible for purchase preference as per the policy of VSP in force from time to time. The local small-scale industries, those who are technically and commercially acceptable shall be considered for extension of Purchase Preference, if the offer is within 15% above L-1 price and upon their matching with L-1 price.
- o) The date of opening of pre-qualification envelope-1 shall be the date of tender opening in respect of both the SINGLE BID AND TWO- BID(Techno-commercial and Price bid) tenders.
- p) **Corrections / amendments / replacement to / of the deficient documents / financial instruments for Earnest Money Deposit (EMD) & Cost of Tender Document (CTD) shall not be sought in the following cases where**
  - (a) There is evidence of tampering / unauthorized correction
  - (b) The value of financial instrument (s) / document (s) is falling short of the value stipulated in the NIT
  - (c) The validity of BG (s) as on initial tender opening date (TOD) is falling short of minimum validity period stipulated in the tenderer
  - (d) Discrepancy exists in the name of Payee / Beneficiary
  - (e) The bidder fails to submit CTD and / or EMD in case of submission of a single instrument / document towards both CTD and EMD.

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## 2) EARNEST MONEY DEPOSIT (EMD)

- a) In case of Earnest Money Deposit being less than or equal to Rs.5 Lakhs, Earnest Money Deposit shall be in the form of Demand Draft / Pay Order / Banker's Cheque obtained from any Nationalized or scheduled commercial bank in India, drawn in favour of Rashtriya Ispat Nigam Ltd., Visakhapatnam Steel Plant, payable at Visakhapatnam and shall be valid for a minimum period of one month from the Envelope-1 (Pre-qualification documents) opening date. No other mode of payment will be accepted. However, in case EMD exceeds Rs.5 Lakhs, tenderers have the option to submit the same in the form of Bank Guarantee (In the format as enclosed to the GCC) from any Scheduled Commercial Bank, encashable at Visakhapatnam. Bank Guarantees shall be valid for a minimum period of 04(Four) months from the date of opening of Envelope-1 (Pre-qualification documents). The above shall supercede the instructions regarding "form of EMD" elsewhere in the tender document. The above shall supercede the instructions regarding "Form of EMD" elsewhere in the tender document.
- b) *Public Sector Enterprises of State / Central Government Undertakings are exempted from submission of Earnest Money Deposit (EMD) provided they submit a letter requesting for exemption from submission of EMD along with their offer.*
- c) EXEMPTIONS / PREFERENCES FOR MICRO AND SMALL ENTERPRISES:
1. Micro and Small Enterprises (MSEs) are exempted from submission of Cost of Tender Documents / Tender Processing Fee (CTD), Earnest Money Deposit (EMD), and Security Deposit (SD), irrespective of whether the service is to be carried out within or outside their premises subject to submission of proof of enlistment / registration with any of the following agencies:
    - (i) District Industries Centre [Acknowledge of Entrepreneur Memorandum ie., EM (Part-II)].
    - (ii) Khadi and Village Industries Commission
    - (iii) Khadi and Village Industries Board
    - (iv) Coil Board
    - (v) National Small Industries Corporation (NSIC)
    - (vi) Directorate of Handicrafts Handloom
    - (vii) Any other body specified by Ministry of MSME

Note:

    - (a) Tender documents are uploaded in the websites ([www.vizagsteel.com](http://www.vizagsteel.com); [www.pubtenders.gov.in](http://www.pubtenders.gov.in); <http://eprocure.gov.in>) and are to be down loaded from there only.
    - (b) The Micro and Small Enterprises registered for the particular trade/items for which the tender is relevant, would only be eligible for exemption.
    - (c) As regards Security Deposit (SD) exemption, the MSEs shall be required to submit a "Performance Guarantee Bond" of requisite value in the prescribed pro-forma in lieu of Security Deposit. It may be noted that waiver of SD is permitted only up to the monetary limit as specified in the proof of enlistment for which the unit is registered.
  2. Preference to MSEs shall be considered under the following conditions:
    - (i) When the work is to be awarded to more than one tenderer, as stated in NIT.
    - (ii) In such cases the package size / value is pre-decided and indicated in the NIT.
    - (iii) MSEs shall have valid enlistment / registration with specified agencies (as above), in relevant category. The successful tenderer should ensure that the same is valid till the end of the contract period.
    - (iv) The offer / bid of MSE shall be within the price band of L1 + 15% and upon their matching with the final negotiated price of L1 (L1 being other than MSE).

On fulfilling the above conditions, the eligible MSEs shall be considered for award of the rest of the package(s) (after negotiating the final L1 price) of aggregate value not less than 20% of the total tendered value, in the order of their ranking in the bid. In case there are more than one eligible MSEs with one or more owned by scheduled caste and scheduled tribe entrepreneurs, package (s) not less than 4% of the tendered value shall be considered for awarding to MSEs owned by SC and ST Entrepreneurs. The preferential award of work shall cease once the limit of 20% of tendered value is attained. Further allotment / award would be based on inter-se ranking of the rest of the tenderers other than who are already considered for allotment / award of package, subject to their matching with the final L1 negotiated price.
- d) *EMDs of unsuccessful tenderers will be refunded after reasonable time without interest.*

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### **3) MODE OF SUBMISSION OF TENDER**

- a) Tender shall be submitted in two separate sealed covers. In case of single bid tender, the first cover shall contain the D.D. / Pay Order / Banker's Cheque for Earnest Money Deposit / Cost of Tender Document / EMD exemption documents for PSUs & **MSE units registered with NSIC**, other pre-qualification documents etc. and the second cover shall contain the tender.
- b) In case of two bid system, the first cover shall contain the techno-commercial bid part of tender, along with the other bank instruments / documents indicated in para 3(a) above, and the second cover shall contain only the price bid part of tender.
- c) The two sealed covers as mentioned above shall be stapled / tied together and submitted. The first cover will be opened first and only if the submitted documents / instruments are found to be as per NIT requirement, will the second cover containing the price bid be opened.
- d) Tenders not satisfying the requirements as per NIT will not be opened.

### **SPECIAL CONDITIONS OF CONTRACT**

1. GENERAL : The special conditions of the contract (SCC) are complementary to and shall be read in conjunction with General Conditions of Contract (GCC) of VSP for works contracts. Scope of work, Bill of Quantities and other documents form part of the Tender Documents. In case of any conflict of meaning between SCC & GCC, provisions of SCC shall over ride the Provisions of GCC.
2. Visakhapatnam Steel Plant reserves the right to accept or reject the lowest or any other tender without assigning any reason and the work may be awarded to one of the Tenderers or to more than one tenderer.
3. The contract shall be treated as having been entered into from the date of issue of the letter of intent/work order to the successful tenderer, unless otherwise specified.
4. WATER, POWER AND COMPRESSED AIR: Unless otherwise specified to the contrary in the tender schedule, the contractor is entitled to use in the work such supplies of water, power and compressed air (Basing on availability) from VSP's sources from approved tapping points, free of cost. The contractor shall make his own arrangement for drawing the same to the work spot.
5. The successful tenderer shall produce Registration Certificate under APVAT Act, wherever applicable, before signing the Work Order / Letter of Acceptance and submit a copy of the same.
6. Immediately on receipt of work order, the successful tenderer shall obtain and submit the following documents to the Engineer with a copy to ZPE/Manager (Pers)/CLC before start of work.
  - a(i) **ESI registration certificate** with the contractor's Code no. covering all the workmen under ESI Scheme, which shall be effective from the date of start of contract and cover for the entire period of contract including extended period/defect liability period, if any.
  - a(ii) **Insurance policy for payment of ex-gratia amount of Rs.5,00,000/-** (Rupees Five lakhs only) per head in case of fatal accidents while on duty, to the contract labour engaged by him in addition to the coverage under ESI Scheme / Workmen Compensation Insurance Policy whichever is applicable. As and when a fatal accident takes place while on duty along with the benefits under the ESI Scheme / Workmen Compensation, whichever is applicable, the contractor is required to pay the ex-gratia amount within 30 (Thirty) days from the date of accident to the legal heir of the deceased. In case of any delay in paying the ex-gratia amount as above, the Employer has the right to pay such amount directly to the legal heir of the deceased and recover the same from the contractor's running / future bills. This insurance policy is to be taken by the contractor over and above the provisions specified under Clause No. 6.13 (Third Party) and 6.14 (ESI Act) of the General Conditions of Contract.
  - a(iii) **Copy of the policy for third party insurance** as stipulated in Clause 6.13 of the GCC.
  - b) **Labour License obtained from Assistant Labour Commissioner (Central), Visakhapatnam.**
  - c) **PF Registration Certificate issued by PF Authorities**
  - d) **Safety clearance** from Safety Engineering Department of VSP.
7. The contractor shall submit wage records, work commencement/completion certificate etc. and obtain necessary clearance from Contract Labour Cell of VSP for bills clearance.
8. The contractor shall ensure strict compliance with provisions of the Employee's Provident Fund Act, 1952 and the scheme framed there under in so far as they are applicable to their establishment and agencies engaged by them. The contractor is also required to indemnify the employer against any loss or claim or penalties or damages whatsoever resulting out of non-compliance on the part of the contractor with the provisions of aforesaid act and the schemes framed there under. A copy of the provident fund membership certificate/PF CODE number shall be submitted by the contractor.

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9. The contractor shall follow the provisions of Indian Factories Act and all rules made there under from time to time as applicable and shall indemnify the employer against all claims of compensations under the provisions of the act in respect of workmen employed by the contractor in carrying out the work against all costs, expenses and penalties that may be incurred by the employer in connection therewith.
10.
  - a) Total amount quoted shall be inclusive of all taxes, levies, duties, royalties, overheads and the like but excluding service tax prevailing as on the date of submission of bids.
  - b) During the operation of the contract if any new taxes/duties/levies etc are imposed or rates undergo changes, as notified by the Government and become applicable to the subject works, the same shall be reimbursed by VSP on production of documentary evidence in respect of the payment of the same. Similarly benefits accruing to agency on account of withdrawal/reduction in any existing taxes and duties shall be passed on to VSP.
  - c) The benefit offered by the agency (other than Service Tax) will be deducted from each bill on the offered percentage basis. Amount so recovered shall be released, limiting to the percentage of benefit offered on the quoted price, only on receipt of credit by VSP.
  - d) The prices are exclusive of Service Tax. RINL-VSP will pay Service Tax as applicable on submission of Invoices in accordance with Rule 4A (1) of Service Tax Rules 1994.  
The contractor will be paid Service Tax by RINL-VSP along with monthly service charge bills for further deposit with Central Excise Authorities. The contract will, in turn, submit the documentary evidence in support of payment of Service Tax of each month along with subsequent month RA Bills.
11. ADVANCE: No advance of any sort will be given by VSP.
12. PAYMENT TERMS: Payment will be made monthly on recommendations of the Engineer basing on the quantities executed, at accepted rates.
13. MEASUREMENTS: The contractor shall take measurements jointly with the Engineer or his representative and keep joint records for the same. Bills shall be prepared and submitted by the contractor basing on agreed measurements.
14. INITIAL SECURITY DEPOSIT (ISD): Initial Security Deposit for the work shall be @ 2% of contract price. Earnest Money Deposited by the successful tenderer shall be adjusted against ISD, and the difference between ISD and EMD shall be deposited in the manner mentioned in the work order/letter of intent.
15. RETENTION MONEY: Retention Money for contracts up to a value of Rs. 100 lakhs, at the rate of 7.5% of the bills for works with defective liability period *not NIL* and at the rate of *5.0% for works with defective liability period "NIL"* will be deducted from each bill until this amount together with the Initial Security Deposit reach the limit of retention which is 7.5% or 5.0% as the case may be for the value of work. The Retention Money shall be released after the satisfactory completion of defect liability period after liquidating the defects. For contracts of value above Rs.100 Lakhs, the limit of retention money shall be Rs.7.5 lakhs plus 5% of the value exceeding Rs.100 lakhs.
16. **Security Deposit: : The Public Sector Enterprises or State/Central Government Undertakings/ MSEs shall be required to submit a "Performance Guarantee Bond" of requisite value in the prescribed proforma in lieu of Security Deposit covering the period of contract + defect liability period + 6 months (Claim period). It may be noted that waiver of Security Deposit is permitted only up to the monetary limit as specified in the proof of enlistment for which the unit is registered for MSEs.**
17. Recovery of income tax at source will be made from contractor's bill and deposited with Income Tax Department as per rules. Recovery of sales tax applicable shall be made from the contractor's bills.
18. SAFETY:
  - a) The contractor and his workers must strictly take all safety precautions and shall supply to his workers dependable safety appliances like hand gloves, safety boots, safety belt, safety helmets, duster cloth, dust mask/nostril filter etc. In addition to this, contractor shall also provide additional safety appliances as per requirement and follow safe working practices like using fully insulated electrode holders etc. He shall also ensure that his workmen intelligently use only dependable safety appliances supplied to them.
  - b) The contractor shall take adequate safety precaution to prevent accidents at site. The contractor shall also ensure that his employees observe the statutory safety rules and regulations and also those laid down by the employer from time to time and promptly submit report of accident and state the measures taken by him to prevent their recurrence and also keep the employer indemnified of all claims arising out of such accidents.
  - c) No Workmen shall be engaged on the work without proper safety induction and without using required PPE. Use of safety helmet and shoe is must excepting in painting works where shoe will not be used.
  - d) All the safety appliances required for safe working as decided by SED/Contract operating department shall be provided by the contractor to his workmen.

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- e) Clearance to start the job will be obtained by the contractor in form 'A&B' before start of work. The forms may be obtained from the dept. concerned.
- f) Works at height cannot be started without clearance from Zonal Safety Officer. The workers engaged for work at height shall possess height pass from SED. The names of workmen working at height or in hazardous areas will be written on the body of form "B".
- g) Contravention of any safety regulation of VSP in vogue from time to time will result into work stoppage, levying penalties and ultimately in contract termination. The list of safety violations category wise are as follows:

I. Category-I of Safety Violations:

Penalty amount: First offence Rs.100/-, 2<sup>nd</sup> or subsequent offences Rs.300/-

- (1) Occasional violation of not wearing crash helmet;
- (2) Driver of two wheeler carrying more than one pillion rider;
- (3) Wrong parking of vehicle.

II. Category-II of Safety Violations (Minor Violations):

Penalty amount: 1<sup>st</sup> violation Rs.2500/-, 2<sup>nd</sup> violation Rs.10,000/-, 3<sup>rd</sup> & subsequent violations Rs.20,000/-

- (1) Working at Height without Height-pass;
- (2) Unauthorized entry at hazardous location;
- (3) Engaging workers without safety training;
- (4) Proper ladder/steps not provided for working;
- (5) Failure to provide proper Shuttering at excavation works;
- (6) Power connection taken from board without proper board plug;
- (7) Fitness certification of cranes/hydra/heavy vehicles not available;
- (8) Crane rope conditions not ok;
- (9) Not wearing safety helmet/safety shoe at site;
- (10) Safety goggles/Hand gloves not used;
- (11) Gas cutting without goggle;
- (12) Rolling/lifting of cylinder/dragging on the ground (without cage);
- (13) Welding with non-standard holder;
- (14) Welding machine earthing (double body earthing) not done;
- (15) Gas hose pipe clamping done by wires;
- (16) LPG cylinder date expiry/over;
- (17) Loading/unloading of cylinder – cushion not given;
- (18) Condition of hose pipe not good;
- (19) Working with leaking cylinder;
- (20) Using non-power cable instead of welding cable;
- (21) Working without work permit/shut down;
- (22) Not putting red flags/stoppers;
- (23) Dismantling of structure without authorized plan;
- (24) Unauthorized Oxygen/Nitrogen tapping;
- (25) Not having proper gate passes/other area passes;
- (26) Use of damaged slings/tools/ropes;
- (27) Use of hand grinders/mixer machines without guard;
- (28) Not reporting of accident;
- (29) Taking shelter behind Electrical panel;
- (30) Driving of heavy vehicles on the road during restricted hour;
- (31) Truck side panel Broken/Not Ok;
- (32) Dropping/Spillage of material on the road;
- (33) No number plate on vehicle;
- (34) No indicator light/brake light on vehicles;
- (35) Driving Dangerously;

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- (36) Overloading of vehicles beyond CC weight;
- (37) Racing and trials of speed, overtaking heavy vehicles;
- (38) Moving vehicles in unauthorized restricted routes;
- (39) Talking with cell-phone while driving;
- (40) Truck carrying powdery material without Tarpaulin;
- (41) Vehicles without Red flags/Red lights, side-guards & Donnage;
- (42) Stock protruding out of the truck body;

III. Category-III of Safety Violations (Major Violations):

Penalty amount: 1<sup>st</sup> violation Rs.7,500/-, 2<sup>nd</sup> & subsequent violations Rs. 15,000/-

- (1) Using bamboo or other non standard material for scaffolding;
- (2) Railing not given at platforms or opening of floor;
- (3) Scaffolding planks not tied properly;
- (4) Throwing/dropping of material from height;
- (5) Proper ladder/approach not given for working at height;
- (6) Walkway/Cross over not provided;
- (7) No barricading of excavated pits;
- (8) No top cover on power distribution board;
- (9) Sleeping under truck;
- (10) Absence of Supervisor at height-works, confined space jobs and other hazardous jobs;
- (11) Welding screen/Face shield, welder gloves not used;
- (12) Driving vehicles without valid driving licence;
- (13) Driving by an Drunken person.

IV. Category-IV of Safety Violations (High-Risk Violations): Penalty amount: Rs.15,000/-

- (1) Failure to use Full body harness with double lanyard;
- (2) Life line of Full body harness not anchored;
- (3) Floor opening left unguarded in the area of work;
- (4) Working at roof without daily permit;
- (5) Working in confined space without Confined-space work-permit;
- (6) Violation of electrical shutdown/PTW;
- (7) Violation of HOT work permit system

V. Category-V of Safety Violations: (The penalties will be imposed on agency in case the reasons to the accidents are attributable to the agency).

- (1) **Serious injuries and permanent disabilities** - Penalty amount: Rs.1,00,000/- or 2.5% of contract value whichever is less;
- (2) **Fatal accident cases** - Penalty amount: Rs.2,00,000/- or 10% of contract value whichever is less.

- (1) The above penalties related to the accidents mentioned at Category (V) will be imposed on agency in case the reasons to the accidents are attributable to the agency.
- (2) Independent of the above, the contractor shall be debarred or deregistered from taking up further contractual work in VSP in case any repeated fatal accident after 3<sup>rd</sup> incident for the reasons attributable to contractor.

Note: The penalties mentioned above are in addition to those which are applicable as per the Statutory Acts & Rules. In case of any imposed penalty by any statutory authority, the same shall be over and above the contractual clauses).

- (3) Without prejudice to the right conferred for stoppage of work for violation of safety rules, the contractor shall be liable for penalty at the rates indicated above depending upon the category of violation.

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- (4) Operating authority will assess the penalty amount having regard to all the circumstances in particular in nature and gravity of the violation on the advice of Head of the Safety Engineering Department and will issue a show cause notice specifying therein the proposed penalty. Considering the cause shown by the contractor, if any, the operating authority shall pass final orders which shall then be binding on the contractor. The penalty amount shall be recoverable from any bill and / or EMD / Security Deposit of the contractor without any further reference to him.
- h) "The contractor shall ensure that the Welders and Gas Cutters wear cotton dress and leather apron. They shall not wear nylon/synthetic dress. This is required to avoid any fire accident. This must be followed strictly".
19. SHUTDOWNS:
- A) Necessary shutdowns will be arranged by VSP to the contractor for carrying out the work based on requirement. No claims on account of delayed/prolonged shutdown will be entertained.
- B) The works assigned to the contractor by the Engineer from time to time shall be completed within the time schedule fixed by the Engineer in each case, within the approved shut down period.
20. LABOUR DEPLOYMENT:
- A) The contractor shall deploy his labour as per requirement and as instructed by the Engineer. It may be necessary to carryout the work round the clock based on requirement and shutdown provided. The contractor's rate shall cover such eventualities.
- B) Only trained, experienced, safety inducted workers acceptable to the Engineer shall be engaged on this work, work shall be executed as per specifications to the satisfaction of the Engineer.
- C) As and when need arises in the Annual works from time to time either for extra requirement of work or as a replacement in running contracts or a contract commencing for the first time, the contractor shall ensure that Displaced Persons (DPs) are engaged in unskilled category of workers to the extent of 50% (fifty percent). The contractor shall contract the Engineer-in-charge for this purpose.
- D) "As and when need arises in the annual works from time to time either for extra requirement of work or as a replacement in running contracts or a contract commencing for the first time in semi-skilled category, the contractor shall ensure the minimum qualification of ITI in the relevant field for such semi-skilled category of workers. The contractor will also ensure to engage 50% (Fifty percent) of such semi-skilled vacancies from Displaced Persons (DPs) category. The contractor shall contact the Engineer-in-charge (EIC) for this purpose".
- E) The Contractor shall engage contract worker(s) who do not have any adverse record with respect to his character in the past. For this purpose, the character and antecedents of the proposed worker(s) whom the Contractor intended to engage, shall be got verified by the Police and report shall be submitted. Till such time the report is submitted, the proposed contract worker(s) will be given only provisional pass and the pass will be cancelled in case any adverse report is reported.
21. SECURITY REGULATIONS: The contractor shall abide by and also observe all security regulations promulgated from time to time by the employer.
22. STORING/STACKING OF MATERIALS: Storing/Stacking/Placing of materials shall be only at the places designated by the engineer.
23. The contractor, his supervisors and workmen shall observe entry and exit timings strictly.
24. After completion of work activity, the site has to be cleared of all debris, construction material and the like.
25. The successful tenderer shall start the work immediately after obtaining gate passes and safety induction training and clearance from the Employer.
26. NOTICES: Any notice to be given to the contractor under terms of the contract shall be considered duly served, if the same has been delivered to, left for or posted by registered post to the contractors principal place of business (or in the event of the contractor being a company, its registered office), at the site or to their last known address.
27. DEFAULT BY TENDERERS: The successful tenderer may be debarred at the discretion of the company, from issue of further tender documents, work orders etc., for a specified period to be decided by the employer in case of :  
 "Undue delay in starting and execution of work awarded, poor performance, backing out from the tender, non accepting work order/LOI during the validity of tender or non observance of safety rules and regulations, misappropriation of company's materials/property, non payment of due wages to labour or such similar defaults".

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28. Successful tenderer should be in a position to produce the Original Certificate in support of the attested copies of relevant documents enclosed along with pre-qualification documents or afterwards, after opening of the Price Bids.
29. Failure to produce the original certificates at this stage in support of the attested copies of PF Registration/ITCC/Electrical License/Experience/Qualification any other documents etc., submitted earlier would result in disqualification and forfeiture of EMD and also liable for debarring from participation in VSP tenders.
30. If it comes to the notice of VSP at any stage right from request for registration/tender document that any of the certificates/documents submitted by applicant for registration or by bidders are found to be false/fake/doctored, the party will be debarred from participation in all VSP tenders for a period of 05 (FIVE) YEARS including termination of Contract, if awarded. EMD / Security Deposit etc., if any, will be forfeited. The Contracting Agency in such cases shall make good to VSP any loss or damage resulting from such termination. Contracts in operation any where in VSP will also be terminated with attendant fall outs like forfeiture of E.M.D. / Security Deposit, if any, and recovery of risk and cost charges etc. Decision of V.S.P. Management will be final and binding.
31. Failure to execute the work after LOI/WORK ORDER is given, will make the party liable for debarring for a period of 2 (TWO) YEARS.
32. In case it is found before/after award of work to the person/agency through Limited Tender Enquiry (LTE) that the same person/agency is proprietor/proprietress/partner of two or more separate agencies and quoted for the same work, then punitive action to the extent of debarring up to 02 (Two) years from participating in VSP tenders will be taken.
33. In case the Tenderers revoke/withdraw/cancel their tender or they vary any terms of their tender during the validity period of the tender without the written consent of Visakhapatnam Steel Plant (VSP) or in the event of VSP accepting their tender and fail to deposit the required security money, execute the Agreement and fail to start the work within reasonable time (to be determined by the Engineer) after written acceptance of their tender – EMD submitted by them will be forfeited by VSP.
34. Contractor shall note that:
  - i) Time for mobilization after issue of FAX Letter of Intent/detailed Letter of Intent / Work Order shall be;
    - a. 03 (Three) days for Capital Repairs
    - b. 15 days for Civil Works
    - c. 60 days for painting works of Structural Engineering Department
    - d. 07 (Seven) days for Annual Mechanical, Electrical and works of technological assistance/cleaning.
  - ii) Re-starting the work after disruption shall be within 04 (Four) to 06 (Six) hours after the cause of disruption is removed as decided by the HOD.
  - iii) Notice period for Contract Termination shall be - 03 (Three) hours in the event of breakdowns, 02 (Two) days in Capital Repairs and 10 days in other works.

*Failure to adhere to above stipulations may result in Termination of contract at risk & cost and will make the party liable for debarring for a period of 2 (Two) years.*
35. Agencies are required to submit Bank Guarantee for the value as decided by the Engineer as a Security while taking out Equipment/Components/materials of VSP to their workshop situated outside the VSP premises for carrying out repairs.

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36. In case of revision in RINL / VSP approved wage rate, consequent to the revision in the minimum wages (either in Basic Wage or Living Allowances) as notified by the Regional Labour Commissioner (Central), Hyderabad, Escalation amount to the contract shall be payable as per the following formula:

$$V = \frac{L \times W \times (X - X_o)}{X_o}$$

WHERE:

V= Escalation Payable

L= Labour Content during billing period

W= Gross value of work done on the basis of Contract Rates for the period for which variation is applicable

X= Revised Weighted Average of RINL/VSP approved Rates for the period for which variation is applicable (for Unskilled, Semi-skilled and Skilled categories of Workers) based on the minimum wages as notified by the ALC (Central), Hyderabad, for the period under consideration for that contract as per present man days of different categories for the billing period.

Xo = Existing (on the basis which tender estimate prepared) Weighted average of VSP approved rates (for Unskilled, Semi-skilled and Skilled categories of Workers and which is based on the Minimum Wages notified by Commissioner of Labour, Govt. of Andhra Pradesh, Hyderabad) for that contract as per present man days of different categories for the billing period.

Computation of X and Xo & L:

X=  $(a*USR + b*SSR + c*SKR)/(a+b+c)$

Xo=  $(a*USRo + b*SSRo + c*SKRo) / (a+b+c)$

L =  $(a*USRo + b*SSRo + c*SKRo) / W$

Where

a= man days present by USW during the billing period

b= man days present by SSW during the billing period

c= man days present by SKW during the billing period

USR= Revised VSP approved Rate for USW at the time of billing

SSR= Revised VSP approved Rate for SSW at the time of billing

SKR= Revised VSP approved Rate for SKW at the time of billing

USRo= VSP approved Rate for USW indicated based on which the Estimate of work was prepared,

SSRo= VSP approved Rate for SSW indicated based on which the Estimate of work was prepared,

SKRo= VSP approved Rate for SKW indicated based on which the Estimate of work was prepared,

(The above escalation shall be independent of the award percentage whether positive or negative)

### 37. PAYMENT OF MINIMUM WAGES:

- 37.1. *Wages paid to the workmen by the contractor should not be less than the rates notified by the Regional Labour Commissioner (Central), Hyderabad, from time to time with regard to the minimum wages applicable to the respective categories of workmen plus the ad-hoc amount at the rate of ₹.11.54ps as per working day per workman per category. Wages with ad-hoc amount to the workmen should be paid on or before the 7<sup>th</sup> of the subsequent month. if 7<sup>th</sup> falls on a holiday or weekly off day, the payment should be made one day prior to that. Payment of PF for the month, both the employer's (in this case contractor) and employee's (in this case workmen employed by the contractor) contributions should be deposited in the bank in the permanent PF code number and challan obtained before the 15<sup>th</sup> of the subsequent month and forwarded to the Engineer". In case of failure of the contractor to comply with any of the above, the following action will be taken by VSP.*

1a) Lapse ———Payment of wages at rates less than those notified under the minimum wages.

Action by VSP ———An amount equivalent to the differential amount between wages to be paid under minimum wages notification of the Government applicable for the period less actual wages paid shall be recovered from the bills as certified by the engineer.

b) Lapse ———Non payment of adhoc amount

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Action by VSP ————An amount equivalent to actual payable towards adhoc amount to the workmen engaged for relevant period shall be recovered from the bills as certified by the Engr.

- 2) Lapse ————Non payment of wages

Action by VSP ————An amount equivalent to wages payable by the contractor applicable for the relevant period shall be recovered from the bills as certified by the Engineer.

- 3) Lapse ————Non payment of PF

Action by VSP ————Recovery of PF amount and an amount equivalent to maximum penalty leviable by Regional Provident Fund Commissioner for the delayed period under the provisions of ERP & MP Act and Rules for delayed remittance of PF contributions (both the employee's and employer's contribution), shall be recovered from the bills of contractor as certified by Engineer.

- 4) Lapse ————Delayed payment of PF

Action by VSP ———— An amount equivalent to maximum penalty leviable by Regional provident Fund Commissioner for the delayed period under the provisions of EPF & MP Act and rules for delayed remittance of PF contributions (both the employee's and employer's contribution), shall be recovered from the bills of the contractor as certified by Engineer.

- 37.2. The contractor shall have to pay WELFARE ALLOWANCE (earlier known as SMA, ASMA) towards fuel charges, food, milk, tiffin, coconut water, washing allowance etc @ ₹80.76ps per day of actual attendance of each worker deployed in the contract not exceeding ₹.2100/- per month in addition to the wages as indicated in the minimum wages clause of Special Conditions of Contract . The contractor will submit his claim with proof of such payment made in this connection in the RA Bill and the same amount will be reimbursed/paid to him.

- 37.2.1. It may be noted that the payment of WELFARE ALLOWANCE is towards the expenditure incurred by the contract labour towards Fuel Charge, Coconut Water Allowance, Washing Allowance, Food/Milk/Tiffin Allowance.

- 37.2.3. The contractor is required to take the above aspects into consideration while submitting their offers and no profit/overhead charges will be paid by VSP on this account.

- 37.2.4. As regards applicability of payment of WELFARE ALLOWANCE, the contractor may refer NIT/Terms & Conditions of the contract in this regard.

- 37.3. (a) **Penalty for delayed payment / non-payment of wages:**  
If the contractor fails to pay wages within the stipulated time ie., by 7<sup>th</sup> working day of the subsequent month, a penalty up to 1% of the gross wages (Basic, DA & Over time (if any) except Adhoc, SMA, ASMA and other allowances) of the workers will be levied for every day of lapse subject to a maximum of 10% in any calendar month. This is without prejudice to appropriate action against the contractor including debarring, in case of perpetual / habitual default".

- (b) **Payment of wages through banks:**  
The contractor shall pay wages not less than the minimum wages notified by the appropriate Government from time to time to the workers deployed by him. The payment shall be made on the due dates either by way of crossed cheques or crediting the wages to the bank accounts of the concerned contract workers. Proof of such payment shall be submitted by the contractor to the Engineer Incharge by 10<sup>th</sup> of the subsequent calendar month.

38. The contract period can be extended at the discretion of V.S.P. up to 04 (Four) months at the existing Rates, Terms and conditions and the Contractor shall be bound to execute the work accordingly and the offer of the Contractor is deemed to include this aspect.

39. The tenderers shall note that in case of quoting above the Estimated Value of V.S.P. the L-1 party shall furnish logical / satisfactory explanation which V.S.P. may seek if felt necessary for quoting such high rates. If the explanation offered by the L-1 party is not acceptable to V.S.P., the L-1 party may be recommended for disqualification while retendering the work.

40. The contractor should clearly understand and comply with the Factories Act 1948 and relieve the FEMALE WORKERS from their work site within the restricted working hours prescribed therein under section 66(b).

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41. The following deductions per workman deployed category-wise shall be made from the bills/amounts due to the contractor as applicable for the work done and such deducted amounts shall be released as mentioned below:

- 1) Component ——— Notice pay  
Recovery amount per labour per every working day —  
USK —Rs.25.23 ps,      SSK —Rs.28.57ps,      SK —Rs.33.47 ps
- 2) Component ——— Retrenchment compensation  
Recovery amount per labour per every working day —  
USK —Rs.12.61 ps,      SSK —Rs.14.29 ps,      SK —Rs.16.73 ps
- 3) Component ——— Leave with wages  
Recovery amount per labour per every working day  
USK —Rs.15.52 ps,      SSK —Rs.17.58 ps,      SK —Rs.20.59 ps

To be released when ——— After the contractor makes payment to the work men in the presence of Engineer Incharge and CLC representatives, a certificate to this effect is to be enclosed with pre-final bill (to be paid with pre-final bill).

Sub-total ———  
USK —Rs.53.36 ps,      SSK —Rs.60.44 ps,      SK —Rs.70.79 ps

- 4) Component ——— Bonus  
Recovery amount per labour per every working day  
USK —Rs.11.55 ps,      SSK —Rs.11.55 ps,      SK —Rs.11.55 ps

To be released when ——— After the contractor makes the payment to the workmen in the presence of Engineer Incharge and CLC representatives, a certificate to this effect is to be enclosed with RA bill / pre-final bill (to be paid with RA bill / pre-final bill as and when paid by the contractor).

#### GRAND TOTAL

USK —Rs.64.91 ps,      SSK —Rs.71.99 ps,      SK —Rs.82.34 ps  
10% towards profit and over heads of contractor  
USK —Rs.06.49 ps,      SSK —Rs.07.20 ps,      SK —Rs.08.23 ps  
Total recovery amount  
USK —Rs.71.40 ps,      SSK —Rs.79.19 ps,      SK —Rs.90.57 ps

#### Note:

- i) The above recovery rates are effective from 01/10/2015. In case of any statutory revision in minimum wages payable to contract workmen as notified by the Regional Labour Commissioner (Central), Hyderabad from time to time, the above recovery amounts for workmen category-wise will be revised by RINL/VSP and will be notified accordingly.
- ii) Payment against the above component is to be made to the workmen based on effective wages of last drawn pay.

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## 42. PAYMENT MODE FOR BILL AMOUNTS:

42.1 Following are the options available to the Contractors for availing e-payments.

42.1.1 **EFT System:** Under this system Banks offer their customers money Transfer service from account of any bank branch to any other Bank Branch. The EFT system presently covers all the branches of about 77 banks located at 15 centers indicated below, where clearing houses are managed by RBI i.e.,

i) New Delhi ii) Chandigarh iii) Kanpur iv) Jaipur v) Ahmedabad vi) Mumbai vii) Nagpur viii) Hyderabad ix) Bangalore x) Chennai xi) Trivendrum xii) Kolkata xiii) Bhubaneswar xiv) Guwahati xv) Patna.

42.1.2 **Direct Credit:** Suppliers opting for this system may open Bank accounts with any one of the following banks.

i)	State Bank of India	-	Steel Plant Branch
ii)	Canara Bank	-	Steel Plant Branch
iii)	Bank of Baroda	-	Steel Plant Branch
iv)	State Bank of Hyderabad	-	Steel Plant Township Branch
v)	Andhra Bank	-	Steel Plant Township Branch
vi)	UCO Bank	-	Steel Plant Township Branch
vii)	IDBI	-	Visakhapatnam Branch

42.2 The Successful tenderer shall agree that all the payment due and payable in terms of the contract will be paid direct to his bank account and he shall give the bank account number and the address of the Bank in which the money is to be deposited" as per the format given below:

- (1) Vendor Code :
- (2) Option : RTGS / EFT
- (3) Beneficiary Details
- a) Name of Beneficiary (Max.35 characters) :
- b) Bank Name (Max. 35 characters) :
- c) Branch Name (Max. 35 characters) :
- d) Account Number (Max. 35 characters) :
- e) Account type (Max. 35 characters) :  
(Savings / Current / Overdraft) [Mention Code No. also]
- f) Beneficiary Bank's IFSC Code (Max. 11 characters):  
(For RTGS Mode only)
- g) Beneficiary Bank's MICR Code (Max.09 characters):  
(For EFT Mode only)

(Signature of the Party / Contractor)  
Name:  
Desgn:

**CERTIFICATE**

Certified that the above particulars are found to be correct and matching with our records in respect of the above beneficiary.

Sd/-.....  
(Signature of Branch Manager)  
Name :  
Seal of Bank :

42.3 The contractor has to submit their bank account details in VSP format duly certified by Concerned Bank Manager for the purpose of making electronic payment before submission of First Running Account Bill, failing which the bill will not be processed.

42.4 The Successful tenderer is required to give an undertaking to the Finance Department of VSP that the payment made by RINL/ VSP of any sum due to him by directly remitting the same in his bank, the address and the number of which is to be furnished, shall be in full discharge of the particular bill raised by him, and that he shall not have any claim in respect of the same".

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- 42.5 *In respect of payment made through Electronic Fund Transfer mechanism or Direct Credit to the supplier's/contractor's bank account, the supplier/contractor/receiver should intimate discrepancies, if any, within 10 days from the date of dispatch of intimation letter of payment to them to Finance Department of VSP failing which it shall be presumed that the funds have reached to their bank account and that no claims will be entertained after the said 10 days.*
43. CLAUSES CONCERNING CENVAT AGAINST EXCISE DUTY:
- a) *The tenderer shall specify the percentage of CENVAT benefit on quoted price for which they shall furnish the duty paying documents.*
  - b) The successful tenderer shall take necessary steps to comply with the rules and provisions of central excise and service tax law facilitating VSP to avail CENVAT credit.
  - c) The amount of CENVAT benefit declared shall be deducted from the tendered price for the purpose of tender evaluation i.e. the evaluation shall be on the net of CENVAT benefit.
  - d) The invoice raised by the Contractor should clearly mention VSP as the consignee (Consignee: RINL, VSP, A/c: Name of the contractor). It should be ensured that material has been delivered along with the duplicate for transporter copy of the invoice, based on which CENVAT credit is to be claimed.
  - e) The duty paying documents shall be submitted as soon as the material is procured by the agency for incorporation in the work. The CENVAT benefit offered by the agency will be deducted from each bill on the offered percentage basis and will be released to the extent CENVAT benefit could be availed by VSP. The contractor shall extend all possible help to facilitate VSP to avail CENVAT benefit. If CENVAT benefit could not be availed by VSP due to reasons attributable to the contractor, such amount will not be released by VSP.
  - f) In the event the CENVAT benefit realized by VSP (based on documents) is in excess of the CENVAT benefit offered by the agency/contractor, the refund will be restricted to the benefit offered by the agency. The excess amount realized from Excise Authorities will be to the credit of VSP only.
  - g) Material once received in to the factory would not be allowed to go outside the factory premises for any reason. Excess/Rejected material will be allowed to be taken back after complying with the provisions of CE Act.
44. RINL reserves the right to reject the offers of tenderers whose performance is poor in awarded / ongoing works if any.

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## SCOPE OF WORK

Work Desc : **Capital & Medium repair of CCP Equipment**

Cond No	Cond Desc
1.00	(BOQ NO.01) OVERHAULING OF CENTRIFUGES IN AMMONIUM SULPHATE PLANT
1.01	<p>a) Removal of drive belt, instruments pipings &amp; other flexible joints.</p> <p>b) Drain oil from oil tank, remove oil cooler, clean the oil tank, &amp; pressure test oil cooler.</p> <p>c) Remove &amp; revision oil pump.</p> <p>d) Remove housing cover, rotor cover and dismantle cone, screens etc.</p> <p>e) Dismantling, revisioning and assembling of oil cylinder.</p> <p>f) Revision / replace (if necessary) the main bearings of rotor.</p> <p>g) Revision / replace (if necessary) the stock bronze bushing, Teflon bushing etc.</p> <p>h) Assemble shaft and rotor.</p> <p>i) Check the gaps and fix screens in position.</p> <p>j) Install oil pumps, oil cooler, housing covers etc. align and box up with new gaskets.</p> <p>k) Revision friction coupling and replace liners if necessary.</p> <p>l) Rectify main foundation structure by replacing damaged structural members and replace damaged shock absorbers.</p> <p>m) Replace all the flexible joints with new.</p> <p>n) Revision all the connected valves on centrifuge feed line, hot water lines, including control valves.</p> <p>o) Open covers of crystal receiving tank, inspect internals, rectify by welding, if necessary and box up with new gaskets.</p> <p>p) Install main motor, align, fix drive belts take trial run and rectify defects if any.</p>
2.00	(BOQ NO.02) CAPITAL REPAIR OF FINAL GAS COOLER
2.01	<p>a) Preparation of gaskets, MS blank plates, blanking / deblanking of different process lines connected to FGC like Tar, Solar oil, steam, Nitrogen, compressed air, service water etc.</p> <p>b) Taking out, revisioning, pressure testing and fixing back the valves mounted on lines connected to FGC including steam lines, tar lines, nitrogen lines, air lines, safety valves, non return valves, steam traps etc.</p> <p>c) Removal of all the manhole on FGC, water settling tank, open and take out both the heater of FGC from sump.</p> <p>d) Replacement of all the flange gaskets of steam heaters with new one , pressure testing, rectification of leakages if any, erection &amp; fixing on completion of cleaning jobs.</p> <p>e) Modification of Tar level cocks, drain line for FGC and water settling tank as per direction of site Engineer.</p> <p>f) Fixing up of all the manholes covers with new gaskets, testing of FGC with Nitrogen and liquidation of defects if any.</p> <p>g) Blanking &amp; deblanking of all the connected line flanges.</p> <p>h) Replacement of damaged vent lines and sampling nipples on FGC and settling tank.</p> <p>i) All the tools, tackles, scaffolding materials, grinding wheels, labour resources, safety appliances, pressure testing pump are Contractor's scope. Internal trays cleaning is in the contractor's scope. All the testing to be done to the satisfaction of site Engineer. Wherever necessary scaffoldings shall be erected by executing agency, No separate payment will be made for fabrication of structural to facilitate heater removal.</p>

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j) SAFETY PRECAUTIONS : Smoking is strictly prohibited in the area. People should not carry lighting material, match box etc. i) For all cutting & welding jobs at site, hot work permit shall be obtained before starting job. ii) Executing agency shall obtain written clearance from site Engineer for working at different location in final gas cooler area. This is fire prone area. iii) Contractor's employee shall not enter in side the cooler without any written clearance from site engr.

3.00 (BOQ NO.03) ANNUAL MAINTENANCE JOBS IN 2 HA 4 BIS MODEL AIR COMPRESSOR

3.01

- a) Draining lubricating oil from crank case, distance piece, clean and pour fresh oil.
- b) Tighten (replace if necessary) gland packing, tighten all the equipment flange bolts with proper torque.
- c) Clean primary oil filter, replace / clean the secondary oil filter. Ensure tightness of primary oil filter plug.
- d) Clean water jackets, cylinders and end plates.
- e) Clean the tubes, pressure test and box up inter cooler and after cooler.
- f) Check all the equipment fastening, piston rod nut for tightness with proper torque.
- g) Clean the de-compressor piston, replace damaged 'O' rings, grease the piston and refit.
- h) Clean the suction and delivery valve parts.
- i) Check and adjust the tension of drive belts.
- j) Clean the moisture trap felt elements, dry thoroughly and fix back.
- k) Clean the suction air filter with compressed air.
- l) Revision all the suction and delivery valves. Rectify valve plates by lapping if necessary, replace damaged / worn-out valve parts.
- m) Check the piston rings, gap and replace the ring if necessary.
- n) Replace connecting rod bolts and nuts.
- o) Check side clearance for crank shaft for permissible limits replace in case of excess worn-out parts.
- p) Replace oil pump drive pin and lubricator drive pin.
- q) Clean the air receiver, suction pipe and discharge header for no pressure drop.

4.00 (BOQ NO.04) OVERHAULING / CAPITAL REPAIR OF ELECTROSTATIC PRECIPITATORS

4.01

- a) Remove bottom cone insulation along with metal sheet covers.
- b) Test thickness of bottom cone & replace if necessary (including plate bending).
- c) Pressure test cone steaming coil & rectify leakages if any.
- d) Take out gas sealpot, dismantle, repair internals, modify as per sketch and assemble back.
- e) Rerouting of steaming line of gas condensate sealpot.
- f) Fabricate & replace gas condensate drain line/
- g) Hydraulically pressure test, 4 nos. of steam jackets insulator chamber upto 10 kg/sq.cm pressure and rectify leakages if any / replacement if required.
- h) Revision all the valves on gas condensate lines, vent lines, leading insulator drain line, steam and steam condensate lines.
- i) Fix back bottom cone cover along with insulation material.
- j) Clean & re-weld all the weld joints of manholes.

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- k) Clean the complete body of ESP shell from inside by wire brush and apply single coat of dehydrated tar.
- l) Remove, clean & fix back 4 nos. of insulators, and rectify replace, if any damage by new.
- m) Cleaning, centering of Electrodes with counter weights and fixing of missing electrodes.
- n) Provide baffle plate below the supporting insulator boxes.
- o) Box up all the manhole covers with new gaskets, test ESP body with Nitrogen pressure up to 1.0 kg./sq.cm pressure and rectify leakage if any.
- p) Blanking & deblanking of connected lines flanges of Gas condensate lines, Nitrogen, pumping lines, steam & steam condensate lines.
- q) Replacement of pipes / pipes nipples upto first valves from the ESP.

5.00 (BOQ NO.05) CAPITAL REPAIR OF DECANTER

- 5.01
- a) Blanking of (i) Inlet lines (ii) Outlet lines (iii) Steam lines to decanter & sludge bunker (iv) Drain lines at the bottom (v) Overflow lines at Telescopic device (vi) Deblanking telescope drain for draining.
  - b) Opening and removal of top, front, back, side covers of both the drive, mechanism.
  - c) Making scaffolding arrangement inside the decanter to work on drive mechanisms.
  - d) Cutting the side plates of decanter and removal of drive mechanisms.
  - e) Replace damaged sprockets on drive mechanism fix back and weld side covers.
  - f) Revisioning / replacement of all the bush bearings.
  - g) Inspect & replace all the damaged links on both the drive mechanisms / replace chain with scrapper if required.
  - h) Cutting & removal of vent lines and erect after completion of job of drive mechanism.
  - i) Opening of all the manholes and boxing up with new gaskets on completion of job.
  - j) Overhauling of all the gear boxes of mechanisms & pour fresh oil.
  - k) Testing the drive mechanisms and liquidate defects if any.
  - l) Deblanking of (i) Inlet lines (ii) Outlet lines (iii) Steam lines (iv) Drain lines (v) Overflow lines (vi) Blank drain line of Telescopic mechanism.
  - m) Replacement of pipes / pipe nipples upto the fist valves from the Decanter.

6.00 (BOQ NO.06) CAPITAL REPAIR OF MECHANICAL CRYSTALLIZERS

- 6.01
- a) Preparation of blank plates, gaskets etc. and isolation of naphthalene feed lines, steaming line by blanking.
  - b) Open manhole covers on both sides on completion of inside body steaming.
  - c) Open coupling bolts of drive motor.
  - d) Dismantle and take out all the arms of crystallizer, replace shaft incase of any damage.
  - e) Replace middle bearing of the shaft.
  - f) Replace non drive / drive shaft, bearings, incase of necessity.
  - g) Align the shaft and fix the middle coupling of shaft and adjust centering of shaft by adjusting turn buckles.
  - h) Rectify the damaged arms by bending and welding fix all the arms on

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shaft with proper, locking arrangement.  
 i) Revision the drive end side shaft bearing.  
 j) Replace the gland packing on both sides with new.  
 k) Overhaul the gear box and replace damaged internals like gears, bearings with new.  
 l) Place gear box in position and align with mechanism & drive motor and pour lubricating oil.  
 m) Fix coupling bolts, take trail run and rectify defects if any.  
 n) Box up manholes and revision drain valve of cristallizer.  
 o) Deblanking of all the communication lines.  
 NOTE : People should be sent inside the equipment only after obtaining written clearance from the engineer / tar plant

7.00 (BOQ NO.07) CAPITAL REPAIR OF BENZOL DISTILLATION & SCRUBBING UNITS

7.01 a) Open all the manholes of stripping column & cb-1 column, after cleaning the trays, adjust bubbler caps and after getting clearance from site I/C box up manholes with new gaskets. Cleaning of the column and trays is not in scope.  
 b) Open all the manholes of regenerators, and box up manholes with new gaskets, after getting clearance from site I/C, revision, pressure test safety valve up to 1 kg/sq.cm pressure and fix back.  
 c) Open take out and pressure test pre-heater inside naphthalene column up to 20 kg/sq.cm, and fix back after getting clearance from site I/C.  
 d) Open manholes of phlegma separator and box up with new gasket after getting clearance from site I/C.  
 e) Open manholes, the Phlegma tank and box up with new gaskets after getting clearance from site I/C.  
 f) Open manholes of following and box up manholes with new gaskets after getting clearance from site I/C (i) CB -II tank. (ii) Separator water tank. (iii) water settling tank. (iv) HBF tank including piping. (v) Emptying tank including piping. (vi) Spillage tank including priming pot & dip pipe. (vii) Decanter including drain valve removal. (viii) Emulsion breaker including drain valve & pipe. (ix) Muck tank including drain lines & valves. (x) DBO tank. (xi) BO tank along with outlet lines & drain lines & drain line with valves. (xii) CB-I column control water separator. (xiii) CB-I separator including oil lines & water lines. (xiv) Reflex tank including oil lines & water lines. (xv) CB-I tanks (2Nos) including oil lines & water lines.  
 g) Opening end covers of all tanks / cleaning tubes of heat exchangers testing with water pressure & box up after getting clearance from site I/C as follows : (i) Oil dephlegmator. (ii) water dephlegmator. (iii) condenser (iv) Steam pre-heater.  
 h) Revisioning of all level gauge glasses along with isolation valves on all equipments in distillation.  
 i) Removal, revisioning & cleaning of both spark arrestors.

7.02 j) Cleaning of view glasses on seal pot in scrubbing unit.  
 k) De-blanking of vent lines on seal pot at scrubbing unit.  
 l) Blanking & De-blanking of oil drain lines to emptying tanks.  
 m) Blanking & de-blanking of oil lines to B.O tank.  
 n) Opening & box up manholes on scrubber, B.O. tanks etc.  
 o) Blanking & de-blanking of communication lines to Benzol scrubbers.  
 p) Opening & box up solar oil filters in pumping line after getting

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clearance from site I/C.

q) Revisioning of flow control valves in scrubbing unit solar oil lines etc.

r) Floating head condenser cooler floating head bundle is to be opened cleaning from tube side and box up with new gaskets after getting clearance from site I/C.

s) Open end covers of re-boilers, rectify any leakages and box up with new gaskets.

t) Open manholes of Vapour trap and rearrange the disturbed ceramic rings and box up with new gaskets.

u) Tanks , columns and other equipments sludge, muck cleaning inside and outside is not under the scope of this contract.

v) SAFETY & SPECIAL CONDITIONS: (I) Gas cutting & welding jobs are totally restricted at site. All the fabricated jobs shall be carried out outside the Benzol distillation premises at place designated by site Engineer. (ii) Contract personnel should not enter inside any of the equipment or tank without prior written permission from site Engineer. (iii) All the testing shall be carried out to the satisfaction of site Engineer. (iv) Jobs assigned to contractor from time to time shall be completed within the time specified by site Engineer.

8.00 (BOQ NO.08 TO 12) CAPITAL REPAIR OF HYDRO REFINING UNIT IN BENZOL PLANT

8.01 a) Heater H-401 :- (i) Dismantling & removal of burner assembly, roof cover, proportionating valves. (ii) Revisioning of Gas burner solenoid valve, gas line filter and cleaning of impulse lines. (iii) Box up top cover gas burner, proportionating valve etc. (iv) Replace damaged flexible connections and explosive flaps and flue gas ducts. (v) Make necessary arrangements & hydraulically pressure test the coil upto 55 kg/sq.cm.

b) Heater H-40 :- (i) Dismantle & revision gas burner, proportionating valve, solenoid valve etc. (ii) Clean gas line filters, impulse lines etc. (iii) Open and remove main door cover of Heater and clean inside. (iv) Make necessary arrangements and Hydraulically pressure test heater coil upto 30kg/sq.cm. (v) Open ducting connections and clean air preheater from inside. (vi) Fix back ducting covers and replace flexible cloth connections on ductings. (vii) Drain water from main coil, below with air and normalize the coil pipings. (viii) Box up heater cover with new packing ropes. (ix) Fix gas burner, proportionating valve, pilot valves, solenoid valve with new gaskets. (x) Test the system and rectify leakages, if any.

c) Cleaning and steaming of Coke oven gas lines in PSA units by providing necessary blanking and steaming connections.

d) Replace the activated carbon in PSA unit.

e) Remove, dismantle the cooling bundle, clean, assemble and test the following heat exchangers :- (i) Inter cooler of Coke oven gas compressors. {E-415 A&B, E-416 A&B --- 4 Nos.} (ii) Vacuum unit cooler. (iii) E-507, E-508, E-509, E-512 & E-513.

f) Open header covers, remove, clean the tube side of following heat exchangers, test and plug leaky tubes and box up with new packings :- (i) E-408 A, B, C & D (ii) E-301 A&B, E-302, E-410, E-412 A&B, E-413, ER-511, E-515, E-516, E-519, E-520, E-522.

g) Rectification of flange leakages on high pressure hydrogen circuit, HP steam & L.P steams. (contd in next point)

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8.02	<p>g) Rectification of flange leakages on high pressure hydrogen circuit, HP steam &amp; L.P steams.</p> <p>h) Take out, revision, pressure test, adjust the set pressure and fix back the safety valve in 400 &amp; 500 units total 20 Nos.</p> <p>i) Open manholes, clean the sump and box up manholes of stage evaporator.</p> <p>j) Open manholes, clean the tank V-406 and box up manholes.</p> <p>k) Take out, clean &amp; fix back on pump suction lines qty. 30 Nos.</p> <p>l) Make points on equipment and process pipings for thickness measurement at various locations, in HRED unit.</p> <p>m) Open, take out steaming coil from batch still and fix back on completion of tank cleaning.</p> <p>n) SAFETY &amp; SPECIAL CONDITIONS: (i) Gas cutting &amp; welding jobs are totally restricted at site. All the fabrication jobs shall be carried out outside the HRED premises at place designated by site Engineer.(ii) Contractor personnel should not enter inside any of the equipment or tank with out prior written permission from site Engineer. (iii) All the testing shall be carried out to the satisfaction of site Engineer. (iv) Jobs assigned to contractor from time to time shall have to be completed within the time specified by site Engineer.</p>
9.00	(BOQ NO.13) CAPITAL REPAIR OF TAR SETTLING TANK
9.01	<p>a) Opening of manhole, cleaning and box up after cleaning.</p> <p>b) Rotating arms repair / changing.</p> <p>c) Rollers revisioning / replacement.</p> <p>d) Railing repair / replacement by cutting and welding.</p> <p>e) Tank leakages rectification by providing patch plates.</p> <p>f) Gear boxes revisioning 3 nos.</p> <p>g) Top bevel gear opening and bearing revisioning / changing &amp; box up.</p> <p>h) Bottom bearing revisioning / changing.</p> <p>i) Bottom arms repair / changing.</p> <p>j) All connected drain and inlet valves revisioning.</p> <p>k) Tacking trail run and greasing all the bearings.</p>
10.00	(BOQ NO.14) CAPITAL REPAIR OF DRUM CRYSTALLIZER
10.01	<p>a) Revisioning of main gear box, intermediate gear box, screw feeder gear box / replacement if required.</p> <p>b) Remove &amp; box up of DC top cover with new gaskets.</p> <p>c) Inspection, cleaning, and modification of water spray nozzles of DC.</p> <p>d) Replacement / adjustment of cake cutting knife of DC.</p> <p>e) Revisioning of main bearings of DC and replacement of Dc gland packing.</p> <p>f) Removal &amp; repair / replacement of screw feeder, feeder bearings and box up.</p> <p>g) Revisioning of all valves connected to DC.</p> <p>h) Replacement of DC ventilation duct flange packings.</p> <p>i) Rectification of body leakage of DC &amp; trail run after repair.</p>
11.00	(BOQ NO.15) OVERHAULING OF NAFC CENTRIFUGE
11.01	<p>a) Isolation of all communication lines connected with centrifuge like naphthalene charging line, steam line, DNO line, Hydraulic oil line etc.</p>



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- b) Removal of all hydraulic and lubricating pipe line cleaning and fixing.
- c) Removal of all hydraulic cylinders, Hydraulic valves, revisioning / repair and re-fixing .
- d) Draining of oil from oil tank, opening of oil tank, cleaning, closing and filling with, new oil.
- e) Revisioning of oil pump & fixing.
- f) Replacement of cake cutting knife and screen.
- g) Removal of main drum shaft seal, shaft & bearing assembly.
- h) Revisioning / replacement of bearings, assembly of shaft seal, packings, shaft & bearing assembly drum etc.
- i) Replacement of pressure gauges on oil circuit, cleaning of view glasses & fixing.
- j) Revisioning of pneumatic actuators, cock valves and fixing.
- k) Revisioning / replacement of fluid couplings.
- l) Revisioning of all valves & parts connected with Centrifuge and fixing.
- m) Deblanking of all communication lines, box-up with new packing and testing and arresting of leakages if any,
- n) Commissioning and trail run of Centrifuge.

12.00 (BOQ NO.16) OVERHAULING OF Co-GAS COMPRESSORS AT BRP

- 12.01
- a) Revisioning and replacement of all valves on Co-gas compressor inlet piping.
  - b) Isolation & dismantling of all pipe lines like Co-gas lines, water lines, oil lines, cleaning and fixing.
  - c) Dismantling of pulsating dampers, inter coolers, cleaning, testing and box-up with new gaskets.
  - d) Removal of I&II stage suction and delivery valves, cleaning, repair, assembling and fixing.
  - e) Removal of end covers, water jackets, cleaning and box-up with new gaskets.
  - f) Draining of oil, opening of crankcase, cleaning, inspection and checking of bearing clearance, piston ring clearance, cross slide clearance, replacement of stuffing box packing, replacement and box-up of all parts including commissioning of compressor.

13.00 (BOQ NO.17) CAPITAL REPAIR OF AMMONIUM COLUMN

- 13.01
- a) Make necessary scaffolding, remove insulation of the column and stock the material in a safe way at the place suggested by the Site incharge.
  - b) Blanking of all communication lines before the first valve to equipment line vapour outlet, flushing liquor inlet, steam inlet, flushing liquor outlet line etc.
  - c) Removal, revisioning and fixing back of valves, vapour line, liquor feed line, liquor draining line, steam inlet line including control valve, level control valve, level gauge glass assembly along with isolation valves, level transmitter, isolation valves, pressure gauge tapping, isolation valves, nitrogen line, reflux line valve, reflux control valve, column safety valve & hydraulically pressure test of column safety valve etc.
  - d) Level indicator assembly revisioning / replacement.
  - e) Numbering of shells with paint, removal & lowering of shells to ground, removal & cleaning of trays, regulation of bubble caps, replacement of damaged bubble caps, repair of damaged trays / shells by welding.

## SCOPE OF WORK

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Replacement of all the inspection hole flange gaskets on all trays.  
 f) Preparation of new gaskets, erection of new gaskets, erection of shells in the order, leveling and alignment of individual trays as per drawings, test each bubble cap tray for proper bubbling. Column verticality and shell gaskets thickness shall be maintained strictly as per drawings. Tightness with proper torque.  
 g) Pressure test the column with compressed air as per directive of Engineer and rectify leakages if any. (i) Replace the damaged impulse line of column with SS pipe. (ii) Replace the damaged impulse line on steam line with new.  
 h) Rectification of leakages if any during commissioning.

14.00 (BOQ NO.18) CAPITAL REPAIR OF NAFC HYDRAULIC PRESS

14.01 a) Draining of Hydraulic oil from the oil tank cleaning and refilling.  
 b) Removal of ventilation hood of Hydraulic press, top and bottom covers of tables, steam inlet and outlet lines, removal of filters (3Nos) grinding of filter and cutting and welding of filters housing and filter in case of damage and refixing of all the dismantled parts and filters.  
 c) Replacement of gland packing of squeezing ram, push out cylinder and table steam chest.  
 d) Replacement of Hydraulic seals (Cuff seals) of squeezing cylinder, push out cylinder, push off cylinder, clamping cylinders, table stopper and command device.  
 e) Inspection / replacement of piston rings of clamping cylinders, push off cylinder, table stopper and command apparatus and fixing.  
 f) Revisioning and replacement of drain valves of squeezing cylinder.  
 g) Revisioning and replacement of throttle valves of squeezing pumps, maint oil pump and command device.  
 h) Revisioning and replacement of squeezing pumps and main oil pumps.  
 i) Replacement of all copper washers, 'o' rings, springs, regulation of pipe fittings, pipe clamps and replacement, if required.  
 j) Repair and replacement of oil coolers including testing.  
 k) Revisioning and replacement of all slide valves & pressure gauges of command device.  
 l) Cleaning, flushing, greasing of table's radial and thrust bearings and greasing of all the moving parts, including command device.  
 m) Replacement of wooden packing of squeezing anvil.  
 n) Regulation of all the fasteners of press column and cross bar.  
 o) Repair of the damaged hydraulic pipelines and fitting.  
 p) After completion of all the above jobs, the agency should test and commission the Hydraulic press.  
 q) The rate mentioned includes all the above jobs / activities.

15.00 (BOQ NO.19 TO 21) IDENTIFICATION OF LEAKY TUBES OF PGC & PLUGGING

15.01 a) Dismantling, shifting & erecting of scaffolding and making safe working platform.  
 b) Blanking and Deblanking of all communication lines of PGC  
 c) Opening and box-up of all manholes of PGC.  
 d) Identification of leaky segments, water chamber/ jacket and leaky tubes by hydraulic & pneumatic testing.  
 e) Dismantling of water jacket / chamber covers and box-up with new gasket

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after plugging of tubes. The rate includes preparation of gaskets also.  
 f) Plugging of leaky tubes / pipes.  
 g) DPT testing of welded joints. Grinding and re-welding in case of defects.  
 h) Testing of PGC on shell side with nitrogen upto 0.5 Kg/Sq.cm pressure and on tube side with hydraulic upto 9.0 Kg/Sq.cm. In case of any pressure drop the leakage identification process is to be repeated and the leakage is to be arrested till 'Zero' pressure drop is ensured.  
 i) All the communication lines are to be deblanked and to be boxed up with new gasket and the flange joints are to be tested before commissioning.

16.00 (BOQ NO.22) CAPITAL REPAIR OF SATURATOR

16.01 a) Preparation of blanks, gaskets and blanking of all communication lines like acid line, ML line, slurry line, hot water line, CO gas condensate lines, Nitrogen line, slurry return lines etc.  
 b) Open all the manholes, overflow hood, hot water spray nozzles, process lines valves etc except gas valves.  
 c) Open acid trap top, hot water nozzles, bottom cone, connected pipe lines, manholes after acid trap etc.  
 d) Open circulation pan bottom manhole, take out dip pipes, inspect, rectify / grind and re-weld weld decays and re-fix.  
 e) Provide wooden scaffolding inside saturator, acid trap, gas pipe after acid trap.  
 f) Inspection and rectification of saturator internals like acid supply pipe, Nitrogen line, line from return saucer, ML circulation lines, bubbler hood, bubbler cone etc.  
 g) Take measurements of bubbler hood with respect to the overflow hood and rectify the deviations if any by cutting / welding of SS pieces to the vanes.  
 h) Replacement of damaged vent lines on saturator, acid trap and circulating pan.  
 i) Gas line from inlet valve to outlet valve repair by welding / patch plate welding. However changing of pipe lines is not in the scope.  
 j) Replace rope packings on gas lines at different flange joints from NB 1000 mm to 2000 mm between saturator and gas outlet valve.

16.02 k) Revisioning of all type of valves including control valves, rota - meter, orifice plate assemblies on acid line, hot water line, Nitrogen line, slurry line, circulating line, gas condensate lines, steam & steam condensate lines , vent lines, gas condensate lines etc.  
 l) Revisioning of hot water nozzles & repair / replace nozzle piping.  
 m) Rectify / replace slurry & circulation pump base frames, install pumps & motors, rectify piping and align pumps & motors.  
 n) Open return flow pan, clean, rectify weld joints and fix back.  
 o) Replacement of saturator body at damaged places including plate bending.  
 p) Repair weld leaks on the saturator body and stand pipes with grinding and welding.  
 q) Repair / replace the hand rails on the circulating pan body.  
 r) Rectify the structural platform above saturator, acid trap and walk ways.  
 s) Take final measurements of bubbler hood, down comer pipe, agitator and

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nitrogen ring and take clearance for removal of scaffolding.

- 16.03
- t) Remove scaffolding and box up the saturator, acid trap and circulating pan with new gaskets.
  - u) Testing of the saturator system with 0.5 kg nitrogen pressure and rectification of leakages if any.
  - v) Replace / revision all the sampling points provided on the vent lines.
  - w) De-blanking of all the communication lines and test them for any leakages. Rectify the leakages if any.
  - x) Lead sheeting / homogeneous welding in the acid trap, delivery gas lines has to be carried out.
  - y) Rectification of weld joint leaks on slurry. Circulation and ML lines by complete grinding and re-welding of the joints.
- Quantities will be measured and separate payment will be made for the following items only:
- i. Lead sheeting and Lead homogeneous welding jobs.
  - ii. Complete grinding & re-welding of SS pipe lines after the first valve from the saturator.
  - iii. Saturator body SS plates replacement.
  - iv. Saturator body leakages grinding and welding.
- SAFETY POINTS:
- 1. Hot work permit is to be taken from the authorised personnel.
  - 2. During the welding works running water hosed is to be maintained.
- 17.00 (BOQ NO.23 & 24) LEAD LINING
- 17.01
- a) Removal of lead lining from Saturator's body (inside shell ), taking out from saturators and transportation to the site specified.
  - b) Cleaning of the body shell thoroughly and made free from metal chips, lead chips, dirt, dust and oxides
  - c) Repair of the damaged shell of saturators, removal of ducts, rounding of sharp corners of the shell.
  - d) Pickling of the saturator shell and subsequent neutralisation.
  - e) Unrolling of lead sheet and straightening it with wooden hammer and inspection thoroughly.
  - f) Checking of the lead sheet for scratch mark, dents, cracks and blow holes.
  - g) Preparation of electrode from lead sheet for soldering / homogenous welding by Oxy-acetylene burner.
  - h) Lead plating and lead soldering as per the directing of Site Engineer. In addition to the above, the lead plate and lead welding / lead soldering shall have to be carried out by the agency on the following parts and equipments.
  - i) Removable and relining of saturators manhole and manhole covers and flanges, inlet and outlet pipe nozzles.
  - j) Removal and relining of acid trap bottom and side manhole holes, manhole covers and flanges.
  - k) Removal and relining of R/S / ASP acid tank manholes, manhole cover, flanges, shell outlet pipe nozzles.
  - l) Preparation of lead ropes for rectangular flanges and all other flanges on gas outlet from saturator and over flow hood (Elephant trunk).
  - m) Removal relining of acid supply line to tank and saturators.
  - n) Removal and relining of end blanks of gas pipe line after acid trap.
  - o) The testing of the lead joints has to be carried out by the DPT test &

## SCOPE OF WORK

Work Desc : **Capital & Medium repair of CCP Equipment**

Air leak test.

p) The consumables required for the test are under the contractor scope.

q) Sand blasting of all the lead lining metal surfaces before lining. ( contd in next point )

17.02

TESTING OF LEAD WELDED JOINTS :

The continuity of lead plating / lead sheeting is to be controlled by means of the colored non-destructive testing which allows to detect pores. Small cracks and other faulty spots of the lead plating.

For this purpose, the following compound shall have to be prepared by agency

a) Burning kerosene-> 80 parts.

b) Turpentine -> 05 parts.

c) Transformer oil -> 15 parts.

d) Paints for colouring of the compound -> 10 Grm/ltr.

Prepared compound shall have to be applied abundantly with a hair brush on the lead plates joints 3-4 times, the time delay between each application of the compound should be 5-7 minutes then joints are to be wiped with waste cloth, washed with 5% soda solution and wiped dry with cloth. Then layer of thick chalk mortar 500-700 Grms. Of chalk per liter of water is applied on the joints. The chalk layer should be allowed to dry. After drying on the chalk layer, due to its hygroscopicity, there will appear the coloured kerosene, being got into pores and cracks of the lead plating and stain the chalk,

Coating is to be allowed to stand for 15-16 minutes depending on the lead thickness. To avoid running of kerosene on the vertical plane during the testing of joints, the waste cloth is impregnated with kerosene and applied to the places of wetting. The stained chalk indicates defects of joints in the plating.

18.00

(BOQ NO.25) MEDIUM REPAIR OF AIR COMPRESSOR

18.01

a) Draining lubricating oil from crank case, distance piece, clean and pour fresh oil.

b) Tighten (replace if necessary) gland packings, tighten all the equipment flange bolts with proper torque.

c) Clean primary oil filter, replace / clean the secondary oil filter. Ensure tightness of primary oil filter plug.

d) Clean water jackets, cylinders and end plates.

e) Clean the tubes and boxup inter cooler and after cooler.

f) Check all the equipment fastening, piston rod nut for tightness with proper torque.

g) Clean the de compressor piston, replace damaged "O" rings.

h) Revision all the suction and delivery pipe line valves.

i) Check and adjust the tension of drive belts.

j) Clean the moisture trap felt elements, dry thoroughly and fix back.

k) Clean the suction air filter with compressed air.

l) Open and clean the suction and delivery valves and fix back.

## SCOPE OF WORK

Work Desc : **Capital & Medium repair of CCP Equipment**

19.00	BOQ NO 26: SS PLATE REPLACEMENT / PATCH PLATE WELDING ON THE SATURATOR BODY.
19.01	a) Prepare the required SS plate by grinding cutting. b) Make proper scaffolding to do the plate fixing and welding safely. c) Cut the damaged portion of the SS plate by grinding cutting and do the edge preparation for proper welding. d) In case of patch welding, grind the welding projections on the surface where the new plate is to be fixed. e) Fix the new plate on the prepared surface without any gaps and do the welding. f) Test the welding while testing the saturator and repair if any leakage found. g) Take necessary safety protocol / hot work permit to execute the job.
20.00	BOQ NO 27: STAINLESS STEEL WELDING OF SATURATOR BODY / PIPE LINES CONNECTED TO SATURATOR.
20.01	a) Do the proper scaffolding to do grinding and welding where ever necessary. b) Do the completed grinding of the weld joint. c) Do the welding on prepared joint. d) Test the weld joint and repair if any leakage. e) Take necessary safety protocol / hot work permit to execute the job.
21.00	BOQ NO 28 & 29: HYDRAULIC TESTING OF PRESSURE VESSEL OF CAPACITY BELOW 3 CUM AT CCP & HYDRAULIC TESTING OF PRESSURE VESSEL OF CAPACITY 3 CUM AND ABOVE AT CCP
21.01	a) Manhole opening, closing with new gasket after cleaning. Cleaning of the vessel is not in scope. Blanking of all connected lines. b) Nipple welding if required for the pressure gauge & air release. c) Water filling in the vessel and testing up to the pressure indicated by the site in- charge. d) After testing draining of the water by opening of the flanges. e) De-blanking of the lines which were blanked initially.
22.00	BOQ NO 30 : CLEANING & TESTING OF THE HEAT EXCHANGERS AT NEW MBC PLANT FLASH UNIT FOR W1 WATER (Y 008-05 NOS) AS PER THE SCOPE OF WORK.
22.01	a) Isolation of the inlet & outlet lines by blanking b) Opening of the end covers, cleaning of the gasket area. c) Cleaning of the tubes with brush. d) Testing the heat exchanger from shell side to find the leakage tubes. Plugging of the leaky tubes and retesting as per the guide lines of the site in-charge. e) Box up the end covers and de-blanking of the inlet and outlet lines.
23.00	BOQ NO 31: CAPITAL REPAIR OF HYDRO REFINARY RECYCLE /MAKEUP HYDROGEN GAS COMPRESSORS AS PER SCOPE OF WORK.
23.01	a) Revisioning and replacement of all valves on compressor inlet piping. b) Isolation & dismantling of all pipe lines like gas lines, water lines, oil lines, cleaning and fixing. c) Dismantling of pulsating dampers, inter coolers, cleaning, testing and box up with new gaskets. d) Removal of First and Second stage suction and delivery valves, cleaning,

## SCOPE OF WORK

Work Desc : **Capital & Medium repair of CCP Equipment**

repair, assembling and fixing.

e) Removal of end covers, water jackets, cleaning and box up with new gaskets.

f) Draining of oil, opening of crankcase, cleaning, inspection and checking of bearing clearance, piston ring clearance, cross slide clearance, replacement of stuffing box packing, replacement and box up of all parts including commissioning of compressor.

24.00 BOQ NO 32 : ANNUAL REPAIR OF SCREW AIR COMPRESSOR AT ADU AS PER THE  
SCOPE OF WORK

24.01

- a) Draining of oil from the tank and handing over to the store.
- b) Blanking of service and air delivery lines.
- c) Separator top cover opening, removal of air & oil separator, cleaning of the tank.
- d) Box up the separator with new air & oil separator and fill it with new lubrication oil.
- e) Replacement of the oil filters.
- f) Replacement / cleaning of the air filter.
- g) Removal of oil coolers, cleaning the tube and shell side and boxing up with new gaskets.
- h) Dismantling of the motor & compressor for compressor oil seal changing and box up after the seal changing.
- i) Checking of the hoses condition and replace the hoses if required with new spares.
- j) Change of the kit of spares for minimum pressure valve, intake valve, blow down valve , solenoid valve and controller.
- k) Check and replace if required, all drain valves of the compressor system.
- l) Revisioning / replacement of connected air and service water valves.
- m) Check and tighten all the fasteners.

25.00 BOQ NO 33 : MEDIUM REPAIR OF SCREW AIR COMPRESSOR AT ADU AS PER  
THE SCOPE OF WORK:

25.01

- a) Cleaning / changing of all the filters i.e. oil, air and air & oil separator.
- b) Coolers removal, cleaning and boxing up. Connected water & air lines blanking and de-blanking.
- c) Changing of lubrication oil.
- d) Check and tightening all the fasteners.
- e) Revisioning of solenoid valve and controller.

## **SCOPE OF WORK**

26.00 BOQ NO. 34 : CAPITAL REPAIR OF HYDRO REFINING UNIT GROUPED AS PER THE SCOPE OF WORK:

26.01

- a) BRP heat exchangers E-403 A,B, CO Common cooler E- 416 C, E-409 A,B,C, E-411, E-345, E-339 isolation, opening, cleaning , testing and boxing up with new gaskets.

27.00 BOQ NO. 35 : CAPITAL REPAIR OF HYDRO REFINING UNIT GROUPED AS PER THE SCOPE OF WORK:

27.01

- a) BRP heat exchangers E-501, E-502 A,B,C, E-503 A,B,C, E-506, E-517 A,B,C, E-518 , E-521 Isolation, opening, cleaning, testing and boxing up with new gaskets

28.00 BOQ NO. 36&37 : HEAT EXCHANGERS OPENING, CLEANING, TESTING BELOW 100 SQ MTR & 100 TO 200 SQ MTRS.(SURFACE AREA)

28.01

- a) Heat exchangers opening, cleaning, testing and boxing up

29.00 BOQ NO. 38 : CLEANING AND TESTING OF HEAT EXCHANGERS INCLUDING SHELL SIDE AT FLASH UNIT Y-25 04 NOS

29.01

1. Inlet line blanking at evaporator Dn 100- 01 no
2. Vapor lines disconnection from exchanger to vacuum pump Dn 50 – 16 nos.
3. Evaporator to heat exchanger vapor lines DN 600 – 04 nos opening.
4. Service water line inlet and out let bends & dish ends opening for all the four heat exchangers.
5. Lowering the heat exchangers to the ground floor for cleaning.
6. Opening the shell side covers & drain flanges of the heat exchangers.
7. Cleaning the heat exchangers both shell side and tube side.
8. Placement of the heat exchanger in the position .
9. Blanking of the vapor side (dia 600) for testing of the tube leakages.
10. Testing and plugging of the leaking tubes.
11. Boxing up of the removed covers/ dish ends with new gaskets.
12. De-blanking of all the communication lines which were blanked earlier.
13. Vacuum pump water line heat exchanger removal, cleaning and fixing back.



## **TERMS AND CONDITIONS**

<b>WORK DESC : Capital &amp; Medium repair of CCP Equipment</b>	
<b>Cond No</b>	<b>Cond Desc</b>
1	Only qualified and experience workmen should be engaged for the work.
2	All the scraps and unused materials should be shifted to the place specified by the site Engineer.
3	Taking delivery and transportation of steels, pipes, valves, spares/lead sheets etc., as per BOQ and as required from VSP sub-stores/VSP local mechanical stores/site and transporting them to the work site and take safe custody of the same till completion of the job. The agency should be responsible for proper accounting of these materials and return the surplus material if any to VSP sub-store/VSP local mechanical stores as per the direction of site Engineer.
4	Equipments shall have to be tested by hydraulically / pneumatically to the test pressure wherever required as per the direction of the site Engineer before commissioning the equipment.
5	The work shall have to be executed generally in A & G shifts and if necessary round the clock as per the BOQ and with the complete satisfaction of the Engineer In charge/his representative, when even repaired.
6	All types of tools, tackles, equipments other than cranes, cutting sets, welding machines, scaffolding materials, DP kit for testing of lead joints required to execute the jobs should be brought by the contractor. VSP shall provide necessary hydra/crane for holding the material at free of charge to the contractor depending upon the availability.
7	The above conditions are in addition to VSP's general & special condition of contract.
8	The jobs are to be executed in hazardous gaseous and chemical atmosphere and hence the contractors should ensure strict adherence of safety rules regulation, permit to work procedure, and safety protocol.
9	Contractor should arrange all types of necessary safety appliance to their workmen (PPE).
10	Only insulated welding holder should be used for welding jobs. Return welding cables is to be ensured. Un-insulated/Jointed welding cable should not be used for welding.
11	Smoking is strictly prohibited in Coal Chemical areas.
12	The contractor shall ensure usage of ISI marked regulators, hoses, nozzles, cutting torches, welding holders and cables for the cutting and welding works. This must be adhered to strictly.
13	All hot work cutting & welding jobs should be taken up after obtaining written clearance from the site Engineer. Agency should obtain hot work permit for all repair jobs in Coal Chemical plant for specified period from VSP energy management (gas safety) department.
14	Written clearance from site Engineer must be obtained before entering in to any equipment/closed vessel/ tank for repair/cleaning work.
15	<p><b>SALES TAX CLAUSE:</b></p> <p>The scope of materials supply and consumables supply in the present proposal are as follows:</p> <p>a) Materials to be supplied by VSP: All steel pipes, valves, equipment spares, lead sheets.</p> <p>b) Consumables to be supplied by VSP: Gas, Power, Packing materials,</p>

**TERMS AND CONDITIONS**

<b>WORK DESC : Capital &amp; Medium repair of CCP Equipment</b>	
<b>Cond No</b>	<b>Cond Desc</b>
	Bolts & Nuts, Lubricants, Cleaning compounds, sealing compounds etc., c) Materials to be supplied by the Contractor: Nil d) Consumables to be supplied the Contractor: NIL The deduction of sales tax shall be done as per the rules prevailing from time to time.

16. Welfare allowances applicable to this contract.



**RAHSTRIYA ISPAT NIGAM LIMITED**  
**VISAKHAPATNAM STEEL PLANT**  
**VISAKHAPATNAM - 530031**

**BILL OF QUANTITIES**

<b>PR No / Date:</b> 73001887 / 08.08.2016	<b>Report Date :</b> 08.08.2016
<b>Pur . Org.:</b> WORKS CONTRACTS	
<b>MSS:</b> 3150615001 : CAPITAL & MEDIUM REPAIR OF CCP EQPT	
CAPITAL & MEDIUM REPAIR OF CCP EQPT	

The BOQ Items are taken as per the following Rates.						
	Central Rates	VSP Rates				
<b>Skilled</b>	390.000	634.150				
<b>Semi Skilled</b>	333.000	546.050				
<b>Unskilled</b>	294.000	485.750				
Sl.No	Service Number	Description of the item	Qty	UOM	Rate	Amount
1	510000366	OVERHAULING OF CENTRIFUGES IN AMMONIUM SULPHATE PLANT AS PER THE SCOPE OF WORK	7.000	EA	20,401.20	142,808.40
2	510000367	CAPITAL REPAIR OF FINAL GAS COOLER (FGC) AS PER SCOPE OF WORK	1.000	EA	110,538.33	110,538.33
3	510000368	CAPITAL REPAIR (ANNUAL MAINT.) OF AIR COMPRESSOR AS PER THE SCOPE OF WORK	2.000	PAA	35,765.83	71,531.66
4	510000369	CAPITAL REPAIR OF ELECTROSTATIC PRECIPITATOR AS PER THE SCOPE OF WORK	4.000	PAA	58,008.02	232,032.08
5	510000370	CAPITAL REPAIR OF MECHANISED DECANter AS PER THE SCOPE OF WORK	3.000	EA	79,292.13	237,876.39
6	510000371	CAPITAL REPAIR OF NAPHTHALENE MECHANICAL CRYSTALIZERS IN TAR PLANT COMPLEX AS PER THE SCOPE OF WORK.	7.000	EA	26,482.47	185,377.29
7	510000372	CAPITAL REPAIR OF BENZOL DISTALATION & SCRUBBING UNIT AS PER THE SCOPE OF WORK.	1.000	EA	230,260.00	230,260.00
8	510000373	CAPITAL REPAIR OF HYDRO REFINING UNIT GROUPED AS PER THE SCOPE OF WORK-OVERHAULING OF H-401,H-402 INCLUDING TESTING OF PIPES.	1.000	EA	17,682.10	17,682.10
9	510000374	CAPITAL REPAIR OF HYDRO REFINING UNIT GROUPED AS PER THE SCOPE OF WORK-OPENING,CLEANING,BOXING UP & TESTING OF HEAT EXCHANGERS E-414 A&,VACUUM UNIT,COOLER,E-408 A,C&D,E-302,E-410,E-412,E-413,E-511,E-515,E-519,E-516,E-520 & E-522	2.000	EA	35,369.06	70,738.12
10	510000375	CAPITAL REPAIR OF HYDRO REFINING UNIT GROUPED AS PER THE SCOPE OF WORK-OPENING,CLEANING,BOXING UP & TESTING OF HEAT EXCHANGERS E-507,E-508,E-509,E-512,E-513,E-301 A&B,E-402 A&B.	2.000	EA	47,682.93	95,365.86
11	510000376	CAPITAL REPAIR OF HYDRO REFINING UNIT GROUPED AS PER THE SCOPE OF WORK-REPLACING THE ACTIVATED CARBON IN PSA,CLEANING OF PSA LINES,OPENING,CLEANING AND BOXING UP OF STAGE EVAPORATOR V-408,BATCH STILL HEATERS.	1.000	EA	26,525.08	26,525.08
12	510000377	CAPITAL REPAIR OF HYDRO REFINING UNIT GROUPED AS PER THE SCOPE OF WORK-TESTING OF SAFETY VALVES,RECTIFICATION OF FLANGE LEAKAGES IN H2 CIRCUIT,MP STEAM AND LP STEAM,ORIFICE PLATES	2.000	EA	33,157.59	66,315.18



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**BILL OF QUANTITIES**

Sl.No	Service Number	Description of the item	Qty	UOM	Rate	Amount
		OPENING,CLEANING AND BOXING UP 20 NOS.				
13	510000378	CAPITAL REPAIR OF TAR SETTLING TANK INCLUDING RAIL RAPIR AS PER SCOPE OF WORK	3.000	SET	52,256.10	156,768.30
14	510000379	CAPITAL REPAIR OF DRUM CRYSTALLIZER INCLUDING KNIFE ADJUSTMENT AS PER SCOPE OF WORK	2.000	SET	43,837.66	87,675.32
15	510000380	OVERHAULING OF NAFC CENTRIFUGE AS PER THE SCOPE OF WORK	1.000	SET	34,582.04	34,582.04
16	510000381	OVERHAULING OF CO-GAS COMPRESSOR AT BRP AS PER THE SCOPE OF WORK	1.000	SET	53,571.08	53,571.08
17	510000382	CAPITAL REPAIR OF AMMONIA COLUMN IN AMMONIUM SULPHATE PLANT AS PER THE SCOPE OF WORK	3.000	EA	201,458.92	604,376.76
18	510000383	CAPITAL REPAIR OF NAFC HYDRAULIC PRESS AS PER THE SCOPE OF WORK	2.000	EA	81,699.45	163,398.90
19	510000384	IDENTIFICATION OF LEAKY TUBES PER PGC:DISMANTLING,SHIFTING,SCAFFOLDING ARRANGEMENT,BLANKING AND DEBLANKING OF LINES,OPENING AND BOX-UP OF PGC MANHOLES,IDENTIFICATION OF LEAKING SEGMENTS / WATER JACKETS AND LEAKY TUBES AND PRESSURE TESTING OF PGC AFTER PLUGGING ON SHELL	3.000	EA	35,177.57	105,532.71
20	510000385	IDENTIFICATION OF LEAKY TUBES PER PGC:DISMANTLING OF WATER JACKET COVERS & BOX UP AFTER REPAIR INCLUDING PREPARATION OF GASKETS	30.000	EA	5,821.80	174,654.00
21	510000386	IDENTIFICATION OF LEAKY TUBES PER PGC:PLUGGING OF LEAKY TUBES / PIPES,TESTING OF WELD JOINTS BY DPT AND RECTIFICATION OF DEFECTS	70.000	EA	744.22	52,095.40
22	510000387	CAPITAL REPAIR OF SATURATORS IN AMMONIUM SULPHATE PLANT AS PER SCOPE OF WORK	3.000	EA	163,890.26	491,670.78
23	510000388	LEAD SHEETING OF SATURATOR'S BODY,ACID TANKS,LIQUOR TANKS,EQUIPMENTS,MANHOLES ETC,AS PER SCOPE OF WORK	10.000	M2	2,793.54	27,935.40
24	510000389	HOMOGENEOUS LEAD WELDING OF SATURATORS BODY,ACID TANKS,LIQUOR TANKS,EQUIPMENTS,MANHOLES ETC,AS PER SCOPE OF WORK	3.000	M2	9,816.45	29,449.35
25	510000363	MEDIUM REPAIR (QUARTERLY MAINTENANCE) OF AIR COMPRESSOR AS PER SCOPE OF WORK	2.000	SET	14,364.93	28,729.86
26	510006262	SS PLATE REPLACEMENT / PATCH PLATE WELDING ON THE SATURATOR BODY	12.000	M	5,585.08	67,020.96
27	510006263	STAINLESS STEEL WELDING OF SATURATOR BODY / PIPE LINES CONNECTED TO SATURATOR	150.000	M	930.84	139,626.00
28	510006264	HYDRAULIC TESTING OF PRESSURE VESSELS OF CAPACITY BELOW 3 CU.MTR AT CCP	8.000	EA	4,316.30	34,530.40
29	510006265	HYDRAULIC TESTING OF PRESSURE VESSELS OF CAPACITY 3 CU.MTR AND ABOVE AT CCP	4.000	EA	7,193.84	28,775.36
30	510006267	CLEANING & TESTING OF THE HEAT EXCHANGERS AT NEW MBC PLANT FOR W1 WATER (Y 008 : 5 NOS) AS PER	1.000	SET	27,415.37	27,415.37



**RAHSTRIYA ISPAT NIGAM LIMITED**  
**VISAKHAPATNAM STEEL PLANT**  
**VISAKHAPATNAM - 530031**

**BILL OF QUANTITIES**

Sl.No	Service Number	Description of the item	Qty	UOM	Rate	Amount
		THE SCOPE OF WORK				
31	510006268	CAPITAL REPAIR OF HYDRO REFINERY RECYCLE / MAKEUP HYDROGEN GAS COMPRESSORS AS PER SCOPE OF WORK	2.000	EA	22,004.44	44,008.88
32	510007859	ANNUAL REPAIR OF SCREW AIR COMPRESSOR AT ADU AS PER THE SOCPE OF WORK	2.000	EA	18,095.73	36,191.46
33	510007860	MEDUIM REPAIR OF SCREW AIR COMPRESSOR AT ADU AS PER THE SCOPE OF WORK	8.000	EA	6,785.90	54,287.20
34	510007861	Capital repair of Hydro Refining unit grouped as per the scope of work- Opening, cleaning and boxing up & testing of Heat Exchangers E-403 A,B, CO Common cooler E- 416 C, E-409 A,B,C, E-411, E-345, E-339	1.000	SET	32,752.18	32,752.18
35	510007862	Capital repair of Hydro Refining unit grouped as per the scope of work- Opening, cleaning and boxing up & testing of Heat Exchangers E-501, E-502 A,B,C, E-503 A,B,C, E-506, E-517 A,B,C, E-518 , E-521	1.000	SET	39,302.62	39,302.62
36	510007863	HEAT EXCHANGERS Opening, cleaning, testing and boxup of surface area below 100 sq metre	10.000	EA	4,230.40	42,304.00
37	510007864	HEAT EXCHANGERS Opening, cleaning, testing and boxup of surface area 100 to 200 sq metre	10.000	EA	7,952.58	79,525.80
38	510007865	CLEANING & TESTING OF THE HEAT EXCHANGERS INCLUDING SHELL SIDE AT NEW MBC PLANT FLASH UNIT (Y 25: 04 NOS) AS PER THE SCOPE OF THE WORK	1.000	SET	39,302.62	39,302.62
<b>Total Value: In words :</b> forty one lakh sixty two thousand five hundred thirty three rupees twenty four paise						4,162,533.24

Signature of the Tendere



**FORM 'G'**  
**RASHTRIYA ISPAT NIGAM LIMITED**  
**VISAKHAPATNAM STEEL PLANT**  
**WORKS CONTRACTS DEPARTMENT**  
**BILL OF QUANTITIES (BOQ)**

**TENDER NO: 76287-0**

**Name Of the work : CAPITAL & MEDIUM REPAIR OF CCP EQUIPMENT**

1. The quantities indicated are approximate and may vary to a wide range. Payment shall be made as per the actual work carried out at corresponding accepted rate.
2. Wherever old items are replaced for fixing new items, all related connections are to be made good for proper functioning of new items. Dismantled / old items are to be handed over to the stores.

No.	DESCRIPTION	UNIT	QTY.	RATE (₹.)	AMOUNT (₹.)
1.	As per the detailed Bill of Quantities enclosed in 03(THREE) pages  ESTIMATED VALUE ..... (RUPEES FORTY ONE LAKHS SIXTY TWO THOUSAND FIVE HUNDRED THIRTY THREE AND PAISE TWENTY FOUR ONLY)	<b>AS PER DETAILED BILL OF QUANTITIES ENCLOSED</b>			<b>41,62,533=24</b>

**TOTAL AMOUNT QUOTED IN FIGURES: Rs. \_\_\_\_\_**

**TOTAL AMOUNT QUOTED IN WORDS: Rs. \_\_\_\_\_**

**only.**

- Note: 1. Tenderer shall write their quoted offer both in WORDS and FIGURES. The quoted offer in WORDS shall be in CAPITAL / BLOCK letters.
2. If there is discrepancy between the amount mentioned in FIGURES and the amount mentioned in WORDS, the amount as mentioned in WORDS only shall be taken as the quotation of the tenderer.
3. **THE ESTIMATE OF THIS TENDER IS BASED ON THE RINL / VSP APPROVED WAGE RATES, CONSEQUENT TO THE MINIMUM WAGE OF CONTRACT WORKER AS NOTIFIED BY THE REGIONAL LABOUR COMMISSIONER (CENTRAL), HYDERABAD, WHICH IS GIVEN BELOW. IN CASE REVISION IN THE MINIMUM WAGES OF CONTRACT TAKES PLACE, ESCALATION DUE TO THIS SHALL BE PAYABLE TO THE CONTRACT AS PER THE ESCALATION FORMULA INDICATED IN THE SPECIAL CONDITIONS OF CONTRACT :**

	UNSKILLED WORKER	SEMI-SKILLED WORKER	SKILLED WORKER
<b>RINL/VSP APPROVED RATE (IN RUPEES)</b>	<b>485=75</b>	<b>546=05</b>	<b>634=15</b>
<b>MINIMUM WAGES AS NOTIFIED BY THE RLC (CENTRAL), HYDERABAD (IN RUPEES)</b>	<b>294=00</b>	<b>333=00</b>	<b>390=00</b>